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### FUNCTIONS OF THE DEPARTMENT OF AGRICULTURE

### LETTER

FROM

### THE SECRETARY OF AGRICULTURE

TRANSMITTING

IN RESPONSE TO SENATE RESOLUTION NO. 351 (72D CONG.) A REPORT OF ALL FUNCTIONS OF THE DEPARTMENT OF AGRICULTURE AND THE ANNUAL COST THEREOF

April 11 (calendar day, April 15), 1933.—Ordered to lie on the table and to be printed

Department of Agriculture, Washington, April 15, 1933.

The President United States Senate, Washington, D.C.

Sir: The following report is submitted in accordance with Senate Resolution No. 351 to show all of the functions and/or activities conducted under the jurisdiction of this Department, the statutory authority therefor, and the total annual expenditures thereon for the latest complete fiscal year wherever practicable, or part thereof as indicated.

In accordance with the description and outline, pages 5024-5025 of the Congressional Record of February 24, 1933, of the form and type of the report desired, there is attached also a list of employees of this Department receiving compensation at the rate of \$5,000 or more per annum.

Very truly yours,

RIGE 2 1945

H. A. Wallace, Secretary.



### STATEMENT 1

GENERAL SUPERVISION

	Statutory authority		Agricultural Appropriation Act, fiscal year 1932.	Do.	Ď.; Š.; Š.;	Do.	Agricultural Appropriation Act, fiscal year 1932, Second Deficiency Act, fiscal year 1931.	Do. Do. Do.			
	From other funds	Source									
res	From otl	Amount								CATIONS	
Annual expenditures	From appro-	priated funds	\$81,462	44,713	39, 452 241, 538 173, 674 2 98, 002	220,815	124, 095	39, 887 85, 896 78, 100	2 1, 260, 544	MAJOR CLASSIFICATIONS	
An		Other	1			\$220,815	124, 095	2,915	347,825	MAJO	
	Salaries	wages	\$81,462	44,713	39, 452 241, 538 173, 674 2 98, 002		29 010	39,887 82,981 78,100	2 912, 719		
	Number of em-		16.18	12.98	17. 68 212. 26 51. 63 1 138. 09			23.38 37.76 37.80	1 563.33		
			Administrative expense: General: Secretary, Assistant Secretary,	Personnel and business admin-	Stration Purchase, sales, and traffic Operation Solicitor Mechanical shors and nower.	plant. Miscellaneous expenses, De-	Partment of Agriculture. Rent of buildings in the District of Columbia.	Purchasing and warehousing. A coounting and auditing. Disbursing and collecting.	Total		

\$184,909				382, 343
		1, 909, 749 743, 189		
\$1, 560, 854	5, 905, 857	427, 105	570, 778 10, 736, 563	10, 645, 918 32, 564
\$5, 232, 572	9, 366, 164 1, 137, 329	1, 482, 644	1, 913, 898	13, 946, 187 161, 176
3,381	4,486	699	1,847	4 99, 180 65
Agricultural Economics	Agricultural Engineering Biological Survey	Chemistry and Soils.	Entomology	Forest Service Grain Futures.

					Annual agricultural appropriation act.				Do.	Do.	Do.
1, 526, 533	2, 093, 785	2, 093, 785	٩S			\$184, 909	184, 909				
236,919 110,116 5,50,923 3,403,063 206,617,478 4,775,927 10,359,744 1,401,484 4,129,707	303, 056, 297	304, 316, 841	FUNCTIONS		\$225, 639 10, 930 14, 880 34, 420	6, 322, 648	6, 608, 517		68, 560	101, 332	28, 398 210, 158 32, 333
55, 838 1, 363, 977 670, 966 203, 881, 049 4,470, 301 8, 866, 383 1, 016, 167 1, 056, 441	252, 747, 140	253, 094, 965			\$24, 575 1, 080 1, 440 3, 380	1, 530, 379	1, 560, 854		5,005	4,888	2, 920 25, 308 5, 951
181,081 72,633 4,206,946 2,732,097 4,262,962 305,626 1,493,361 3,653,373 3,073,266	52, 402, 942	53, 315, 661			\$201, 064 9, 850 13, 440 31, 040	4, 977, 178	5, 232, 572		63, 555	96, 444	25, 478 184, 850 26, 382
81 3,264 5,4,566 6,5,480 7,2,452 7,2,452 8,4,127	9 133, 617	134, 180			141.3 5.0 8.0 15.0	3, 211. 7	3, 381. 0		70.0	47.0	36.0 182.1 15.0
Home Economics Library Plant Industry Plant Quarantine Public Roads. Office of Experiment Stations Extension Service Office of Information Weather Bureau	Caron Caronical	Grand total		BUREAU OF AGRICULTURAL ECONOMICS	General administration. Personnel administration. Purchasing and warehousing. Accounting and auditing.	Project, activities, etc. (summary of details shown below).	Total, Bureau of Agricultural Economics.	DESIGNATION	Farm management and practice: Agricultural credit, insurance, and taxation.	Land economics and land utiliza-	Farm population and rural life Farm management and costs Corn borer research (discontinued).

Includes mechanical shops personnel engaged on reimbursable work for other bureaus and offices.

Exclusive of \$155,536 beinbursement for work done by mechanical shops for other bureaus and offices.

Does not include funds transferred from the Reconstruction Finance Corporation.

Includes approximately 97,000 internitient temporary employments.

Includes approximately 4,000 temporary employments.

Includes approximately 4,000 temporary employments.

Includes 2,236 exclusion agents employered—rainfall observers, etc.

Includes approximately 2,000 subsistation employees—rainfall observers, etc.

Includes approximately 16,000 temporary, intermittent, and cooperative employments. The regular force of the Department numbers about 18,000.

Includes approximately 116,000 temporary, intermittent, and cooperative employments. The regular force of the Department numbers about 18,000.

Includes approximately 116,000 temporary, intermittent, and cooperative employments. The regular force of the Department numbers about 18,000.

Includes approximately 116,000 temporary, intermittent, and cooperative employments. The regular force of the Department numbers about 18,000.

Output the project "Force of the Department numbers of such officers are anaintained in the foreign field but the disbursing work is of slight volume and incidental for regular functions. Salaries of such officers are

FUNCTIONS-Continued

	Statutory authority				Annual agricultural appropriation act.	Do.	Do.	Do.	U.S.C., supp. V, title 7, sec. 424. U.S.C., supp. V, title 7, sec. 425.	Annual agricultural appropriation act.	Do.	Do.	U.S.C., title 7, secs. 411-414. U.S.C., supp. V, title 7, secs. 541-545.	Annual agricultural appropriation act.	Do.	Do.	. Do.	e C	Do.	D0.	Do.	. Do.	Do	
	From other funds	Source																						
res	From ot	Amount																						
Annual expenditures	From appro-	priated funds			\$86, 433 114, 590	36, 943	64, 962	46, 660	34, 122	101, 964	115, 987	712, 273	82, 612 325, 867	303, 112	20, 320	41,306	56, 967	31.845	64, 331	4, 330	515, 831	552, 613	198, 244	
Anı	Other				\$8, 536 10, 475 7, 816	2,875	9,742	0, 309	13, 259	19, 760	15, 698	111,849	13, 239	52, 596	9, 693	8, 321	10, 907	7. 191	9, 281	000	178, 012	220, 252	77, 318	-
	Salaries,	wages			\$77,897 104,115 83 953	34, 068	55, 220	25, 848 35, 113	30, 442	82, 204 42, 780	100, 289	600, 424	69, 373 247, 391	250, 516	10, 627	32, 985	46,060	24, 654	55,050	4, 161	337, 819	323, 361	120, 926	-
	Number of em- ployees		•		% % % % %	16.0	29.0	46.0	47.0	31.0	62.3	444. 7	34. 0	151.2	 0 %	32.8	19.0	21.5	46.0		241.3	223. 6	89. 5	
			DESIGNATION—continued	Marketing and distributing farm prod-	Marketing fruits and vegetables Market price trends Marketing livestock meets and	~ ~.	Marketing hay, feed, and seed	Cotton standards and testing	Investigation of cotton	Grain investigations.  Market information.	Outlook reports	Crop and livestock reports	Foreign competition and demand	Market inspection of farm products: Inspection of fruits and vegetables	Grading of canned fruits and vegetables.	Grading of dairy and poultry products.	Inspection of hay, beans, broom-	Grading of meat.	Grading of tobacco	Market news service:	Market reports on livestock meats	Market news service on fruits and	Vegetables. Market news service on dairy and nonlive products	Lorent Lucrence

Do.	Do. U.S.C., supp. V. title 7, secs. 471–476. U.S.C., supp. V. title 7, secs. 501–508. U.S.C., supp. V. title 7, secs. 551–568. U.S.C., title 26, secs. 731–752.	U.S.C., title 7, sees. 51–65. Do.	Do.	Do.	U.S.C., title 7, secs. 71–87. Do. Do. U.S.C., title 7, secs. 241–273.	U.S.C., tutle 15, secs. 251–256. U.S.C., supp. V, title 15, secs. 257–257i.	U.S.C., supp. V, title 7, secs. 491–497. Executive order, Dec. 31, 1918. Annual Agricultural Appropriation Act. U.S.C., supp. V, title 7, secs. 415b–415d.		Act Feb. 23, 1931, vol. 46, pp. 1266, 1267. (Public, No.	717, 71st Cong.) Do. Do. Do. Do.	
			Revolving	From fees collected.							
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			\$172, 519	12, 390				184, 909			
110, 408  -	21, 953 377, 841 24, 972 128, 610	19, 823 - 56, 991 - 155, 290	62, 022		766, 355 - 36, 309 - 29, 100 - 293, 054 -	22, 909	3,687	6, 322, 648	33, 917	. 1, 621 3, 421 7, 366 567, 665	613, 990
37, 104	14, 058 159, 254 3, 566 24, 826	12,318	15,882 44,012	11, 250	119, 341 3, 209 97, 560	5, 110	2, 100 1, 420 5, 850	1, 530, 379	9, 431	81 19 332 163, 444	173, 307
73, 304	7, 895 218, 587 21, 406 103, 784	19, 340 44, 673 124, 096	46, 140 128, 507	1, 140	647, 014 33, 100 29, 100 195, 494	17, 799	7,880 2,267 32,211	4, 977, 178	24, 486	1, 540 3, 402 7, 034 404, 221	440, 683
52.0	68.0 180.7 32.8 48.5	14.0 21.0 68.8	22. 6 131. 8	∞.	281. 7 8. 0 6. 0 81. 9	8.2	4.0	3, 211. 7	10.4	2. 2 4. 0 11 683. 7	701.0
Market news service on grain, hay	Market news service on tobacco Estimates of cotton, grade and staple Tobacco stocks and standards Enforcement of the Perishable Agricul- tural Commodities Act. Enforcement of the U.S. Cotton Fu- tures Act and U.S. Cotton Fu-	Act: Administration of the acts Future and spot-market investigation and ection price quotations. Preparation and distribution offi-	cial cotton standards. Supervision of cotton classing.	Cotton Standards Act, special fund (revolving fund). Enforcement of the U.S. Grain Stand-	ards Act: Administration of the act Inspection efficiency Board of review Administration of the U.S. Warehouse Act.	Entertheur of the Standard Container Hamper and Produce Agency Act: Enforcement of standard container	Enforcement of Produce Agency Act. Completion of wool work of War Industries Board. Wool marketing studies.	Total TOTAL THEATT OF AGRICULTURAL ENGINEEPING	General administration	Personnel administration. Purchasing and warehousing Accounting and auditing Projects, activities, etc.	Total

14 Includes 558 temporary and seasonal employees,

	Statutory authority			Act Feb. 23, 1931, vol. 46, pp. 1266, 1267. (Public, No.	15, 125, Cutts.) Do. Do.	Do.	Do.	Do o o o o o	Do. Do.	D0.	Do. o. o		U.S.C., title 5, secs. 511, 512; title 7, secs. 181–229, 391; title 21, secs. 101–105, 111–128, 130, 151–156; title 45, secs. 71–76; U.S.C., supp. V, title 7, secs. 205, 231; act July 7, 1932, 47 Stat. p. 618.
	From other funds	Source											
res	From oth	Amount											
Annual expenditures	F	rrom appro-		\$78,052	28, 141	24, 118	30,848	77, 088 12, 635 8, 968 4, 222 5, 186 22, 410	73, 946 22, 462 10, 980 13, 871	11,986	9, 143 12, 022 50, 855 17, 330 31, 056	567,665	98, 310
Anr		Other		\$5,026	2, 416	7, 330	4, 335	34, 205 3, 276 2, 760 1, 903 10, 179	10, 803 13, 518 4, 381 4, 185	4,306	3,241 4,150 28,634 11,214 860	163,444	4,801
		Salaries, wages		\$73,026	25, 725 7, 156	16, 788	26, 513 2, 854	42, 883 9, 359 6, 208 4, 101 3, 283 12, 231	63, 143 8, 944 6, 599 9, 686	7, 680	5,902 7,872 22,221 6,116 30,196	404, 221	93, 709
	Number of em-	ployees		96.4	32.4	45.6	27.7	194.3 11.2 3.7 1.4	37.4 4.0 70.8	23.7	7.2.7 7.2.1 1.4.8 8.8	683.7	51.5
			BUREAU OF AGRICULTURAL ENGINEER- INGcontinued	Utilization of water in irrigation	Irrigation conduits and structuresCustoms, regulations, and laws relating	Run-off and hydraulics of drainage	Channels.  Drainage of farm lands	to drainage. Control of soil erosion. Development of farm lands. Livestock shelters and appurtenances. Improvement of farm buildings Farm building construction details Storage and transportation of farm	products. Corn borer control machinery. Fertilizer distributing machinery. Sugar beet production machinery. Cotton production machinery.	Corn production machinery  Utilization and cost of farm power and	machinery, for controlling insect pests Artificial drying of crops Cotton ginning Miscellaneous research. Advice and assistance	Total	BUREAU OF ANIMAL INDUSTRY General administration

Do. Do. T. C. C., title 6, secs. 511, 512; title 7, secs. 181–229, 391; Do. T. C. C., title 6, secs. 101–102, 111–127, 130, 151–158; title 46, secs. 101–107, 110–10, 151–108; title 46, secs. 101–107, 1832, 47 Stat. pp. V. title 7, secs. 205, 231; act July 7, 1932, 47 Stat. p. 601–621, U.S. C., title 21, secs. 71–66; act July 7, 1932, 47 Stat. p. 600, acts June 642, 643.		U.S.C., title 5, secs. 511, 512; title 7, secs. 181-229, 391; title 21, secs. 101-105, 111-127, 130, 151-158; title 45, secs. 71-77 U.S.C., supp. V, title 7, secs. 205, 231; act	July ', 1852, 41 State. p. 918. Do.	Do.	Do.	Do.	Do.	Do.	Do.		U.S.C., title 5, secs. 511, 512; title 7, secs. 181–229, 391; title 21, secs. 101–105, 111–127, 130, 151–158; title 46, secs. 71–75 (U.S.C., supp. V, title 7, secs. 205, 231; act	Do.	Do.	. Do.	
20, 706 41, 076 17, 304 15, 094, 625	15, 272, 021	120, 128	117, 511	290, 710	30,664	15,674	65, 117	8, 936	1, 470	720, 468	66, 448	1,071,132	4, 785, 723	23, 302	5, 946, 605
986 1, 956 824 5, 897, 490	5, 905, 857	38, 757	36, 906	3, 578	745	4,053	6,646	544	85	94, 304	602	250, 581	4, 785, 723	9,842	5, 046, 748
19, 720 40, 740 16, 480 9, 195, 515	9,366,164	81, 371	80, 605	287, 132	29, 919	11, 621	58, 471 67, 275	8, 392	1,378	626, 164	65,846	820, 551		13,460	899,857
10 20 10 4, 394. 3	4,485.8	53	25	133.2	13	20	112 25	က		245.2	29	325		7.7	361.7
Personnel administration	Total	Inspection and quarantine: Eradicating scabies in sheep	Eradicating scabies in cattle and	horses. Control interstate shipment live-	Stock. Enforcement of the 28-hour law	cellaneous diseases, their control and eradication. Quarantine of animals at ports of	entry. Inspection of animals for import Supervision over the importation of	animal by-products, forage, etc. Inspection and testing of animals	ior export. Inspection of vessels carrying export animals.	Total	Eradicating tuberculosis: Tuberculin testing of eattle at public stockyards for interstate shipment.	Eradicating tuberculosis from herds of cattle and from circumscribed	Indemnities for animals slaughtered	on account of tuberculosis.  Investigation of animal tuberculosis.	Total

	Statutory authority		U.S.C., title 5, secs. 511, 512; title 7, secs. 181–229, 391; title 21, secs. 101–105, 111–127, 130, 151–158; title 45, secs. 71–76; U.S.C., supp. V, title 7, secs. 205, 231; act July 7, 1932, 47 Stat. p. 619.	U.S.C., title 5, secs. 511, 512; title 7, secs. 181–229, 391; title 21, secs. 101–105, 111–127, 130, 151–158, title 45, secs. 71–76, U.S.C. suno. V. title 7, secs. 205, 231.	act July 7, 1932, 47 Stat. p. 619. Do. Do. Do. Do.	Do		U.S.C., title 5, secs. 511, 512; title 7, secs. 181-229, 391; title 21, secs. 101-105, 111-127, 130, 151-158; title 45, secs. 71-76; U.S.C., supp. V, title 7, secs. 205, 231	act July 7, 1932, 47 Stat. p. 619. Do.	Do.	Do.	Do.	Do.
	ner funds	Source											
res	From other funds	Amount											
Annual expenditures	From appro-	priated funds	\$721, 053	50, 574	102, 214 35, 887 17, 254 64, 381	1,4, 130 4, 958 173, 837 36, 371 12, 520	708, 411	48, 673	14,847	26,048	10, 495	899 '6	19, 535
Anı	Oake	Otner	\$104, 302	15, 607	27, 954 7, 362 2, 845 15, 629	57, 734 979 57, 029 8, 897 3, 168 7, 119	198, 343	8, 624	9, 357	13, 308	430	150	2, 685
	Salaries.	wages	\$616, 751	34, 967	74, 260 28, 525 14, 409 48, 752	22, 390 3, 979 116, 808 27, 474 33, 097 5, 401	510,068	40, 049	5, 490	12,740	10,065	9, 518	16,850
	Number of em- plovees		440.9	18	12 90 90 90 90	1588 22 33 25 23 33 33 33 33 33 33 33 33 33 33 33 33	295	15. 5	3.6	7.8	4.3	3.3	6.9
			BUREAU OF ANIMAL INDUSTRY—con.  Eradicating cattle ticks.	Investigations in animal husbandry: Swine investigations	Sheep and goat investigations.  Horse and mule investigations. Genetic research. Beltsville farm.	Deet cattle Wyskigations Certification of pedigress Poultry Investigations. Nutrition research Meast investigations. Livestock production Bis Smrine	Tex. Total	Investigations of diseases of animals: Pathological investigations of diseases of livestock.	Pathological investigations of dis-	Pathological investigations of stock	Biologing by plants. Biological investigations of diseases	Index catalog and collection of	Investigations of poultry parasites.

	I	UU	CTI	ON.	S OF TI	HE D	EP	ARTM	ΕN	T OF .	AGRICU	LTURI	C		9
è è è è è è è è è è è è è è è è è è è	Do.	Do.	Do.		U.S.C., title 5, secs. 511, 512; title 7, secs. 181–229, 391; title 21, secs. 101–105, 111–127, 130, 151–158; title 45, secs. 71–76; U.S.C., supp. V, title 7, secs. 205, 231; act	July 1, 1982, 41 Stat. P. 619. Do.	Do.	Do.		U.S.C., title 5, secs. 511, 512; title 7, secs. 181-229, 391; title 21, secs. 101-105, 111-127, 130, 151-156; title 45, secs. 71-76; U.S.C., supp. V, title 7, secs. 205, 231; act July 7, 1932, 47 Stat. p. 619.	U.S.C., title 5, secs. 511, 512; title 7, secs. 181-229, 391; title 21, secs. 101-105, 111-127, 130, 151-158; title 45, secs. 71-76; U.S.C., Supp. V, title 7, secs. 205, 231; act July 7, 1332, 47 Stat. p. 620.	U.S.C., title 21, secs. 71-96; act July 7, 1982, 47 Stat. p. 620. Do.	Do.	Do.	Do.
						1	19							1010	3
24, 192 117, 543 7, 531 12, 540	11, 326	8, 860	93, 920	405, 178	157, 305	18, 671	11, 205	265, 593	452, 774	21, 917	366, 919	13, 025	295, 439	2, 710, 776 2, 404, 385	1,006
8, 057 21, 824 2, 004 1, 275	936	1,900	24, 044	94, 594	35, 802	4, 497	1,757	13, 796	55, 852	5, 382	75, 605	2, 225	6,943	33, 415 29, 998	
16, 135 95, 719 5, 527 11, 265	10, 390	6,960	69, 876	310, 584	121, 503	14, 174	9,448	251, 797	396, 922	16, 535	291, 314	10,800	288, 496	2, 677, 361 2, 374, 387	1,006
6.3 7.3.7 7.8	5.7	2	45.5	164.9	45.2	5.5	3.5	96	150.2	∞	102.8	32.1	132.6	1, 205.3 1, 128.1	10
Investigations of swine parasites Investigations of ruminant parasites Investigations of miscellaneous	parasites. Investigations of treatment of livestock for internal and external	parasites.  Breeding and feeding small animals	Investigation and control of contagious abortion of animals.	Total	Investigation, eradication, and control of hog cholera:  Hog cholera control looking to eradication.	Investigation of methods of pro- ducing immunization against hog	Investigations of modes of dissem-	manufacture, importa- tion, and shipment of viruses, serums, toxins, etc.	Total	Eradicating dourine.	Packers and stockyards administration.	Meat inspection: Special supervisory inspection Laboratory inspection	Ante-mortem inspection of animals	Post-mortem inspection of animals. Control over the preparation of	meats and meat products. Inspection at public markets

FUNCTIONS-Continued

	From other funds Statutory authority	Amount Source		U.S.C., title 21, secs. 71-96, act July 7, 1932, 47 Stat.	p. 620.	Do.	Do.	č	70.		U.S.C., title 21, sees. 112-115, 117-119, 129, 130; act July 7, 1932, 47 Stat. pp. 620, 621.	Do.		Acts June 30, 1914, 38 Stat. p. 441; July 7, 1932, 47 Stat.		
nditures				\$2, 299	22, 431	10, 097	13, 431			141	142, 599	4, 060	146, 659	43, 500		
Annual expenditures	1	priated funds		\$2,	22,	10,	13,			5, 561, 141	142,	4,	146,	43,		
An		Other		\$126	133	1,361	1,116			93, 677	113, 533	. 63	113, 596	15, 087		4,778
	PO TOWN	wages wages		\$2, 173	22, 298	8, 736	12, 315			5, 467, 464	29, 066	3, 997	33, 063	28, 413		51, 708 1, 152 4, 112
	Number of em-	broyees		1.0	10.3	2.5	5.5			2, 520.9	11.4	63.	14.7	31		23.00
			BUREAU OF ANIMAL INDUSTRY—CON.	Meat inspection—Continued. Control over operations conducted	under certificates of exemption. Inspection of imported meats and	meat rood products. Chemical investigations of meats	20 00	ditions noted during meat in- pection.	Deduction from project on account of legislative furlough.	Total	Eradicating foot and mouth and other contagious diseases of animals: Eradicating foot and mouth and other contagious diseases of ani-	Eradication of European fowl pest and similar diseases in poultry.	Total	Experiment and livestock production in southern United States.	BUREAU OF BIOLOGICAL SURVEY	General administration Personnel administration Purchasing and warehousing

_	,	U.S.C., title 18, sec. 145; U.S.C. Supp. V, title 16, sec.	715i. - 715i. Do.	Do.	Do.		U.S.C., Supp. 7, sec. 426.	ı.	Do.	-	Do. Do.	Do.	1	U.S.C., supp. V, title 16, sec. 581 d. Do. Do.		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										1					. !	
						=	,									The same was a second or the same of the s
1,820,873	1, 903, 591	20, 130	15, 920 12, 150	18, 200 6, 850	19, 631	93, 019	33, 626 67, 921	101, 547	237, 826 326, 123	563, 949	13, 525 1, 500 16, 031	13, 310 17, 970	62, 336	57, 341 20, 653 21, 850 12, 829	112, 673	
761, 484	766, 262	6,962	6,093	4, 315	14, 439	37, 790	11, 543 14, 380	25, 923	82, 578 57, 232	139,810	2, 708	2, 696 5, 025	15, 151	7, 418 5, 631 8, 935 5, 084	27, 068	
1, 059, 389	1, 137, 329	13, 168	9,827 8,082	13, 885 5, 065	5, 192	55, 229	22, 083 53, 541	75, 624	155, 248 268, 891	424, 139	10, 817 1, 500 11, 309	10, 614 12, 945	47, 185	49, 923 15, 022 12, 915 7, 745	85, 605	m) Character and the second
1, 712.00	1, 749. 00	37.00	82. 00 20. 00	43.00	1.00	223.00	33.00	59.00	424.00 367.00	791.00	6.00 1.00 13.00	25.00	59.00	19.00 13.00 13.00	65.00	
Jects, activities, etc	Total	intenance of mammal and bird re- rvations: Bird refuges.	National bison range (Mont.)Wind Cave Game Preserve	(S.Dak.). Elk Refuge (Wyo.).	(N.Dak.). Niobrara Reservation Restocking reservations	Total	d habits of birds and animals: Control methods. Investigation of relation of birds and animals to agriculture.	Total	itrol of predatory animals and in- rious rodents: Control of injurious rodents	Total	duction of fur-bearing animals:  Investigations of fur animals.  Commercial fur production 12 Fur-animal experiment station	Rabbit experiment station (Calif.) Disease investigations	Total	logical investigations: Investigations of wild-animal life Beaearch in forest wild life Reinder investigations. Muskox investigations.	Total	

12 Discontinued in 1934,

				A marrial common districts			Carlo and the second of the se
	Marshon		TV	naar ew benance	100		
	of em-	Salaries,	Other	From appro-	From other funds	er funds	Statutory authority
		w ages		priateu iumus	Amount	Source	
BUREAU OF BIOLOGICAL SURVEY-COD.							
Protection of migratory birds: Migratory Bird Treaty Act	145.00	\$97, 687	\$60, 377	\$158,064		1	U.S.C., title 16, secs. 703-711; U.S.C., title 18, secs. 391-
Investigations of migratory birds	14.00 11.00	23, 439 16, 290	11, 284 1, 717	34, 723 18, 007			945. U.S. C., title 10, sec. /01. Do. Do.
Total	170.00	137, 416	73, 378	210, 794			
Enforcement of Alaska Upper Mississippi River Wild Life	35.00	57, 075	48, 366	105, 441			U.S.C., title 48, secs. 192-211, 46 Stat. 1111-1115.
Reuge: AdministrationAcquisition of land	53.00	28, 131 28, 849	17, 176 16, 681	45, 307 45, 530			U.S.C., title 16, secs. 721-731. Do.
Total	114.00	56, 980	33, 857	90,837			
Bear River Migratory Bird Refuge: Administration	23.00	12, 424 1, 876	7,082 6,991	19, 506 8, 867			Do. Do.
Total	33.00	14, 300	14, 073	28, 373			U.S.C., supp. V, title 16, secs. 690-690 h.
Migratory Bird Conservation Refuges: Acquisition of land Investigation of food resources of	98.00	58, 520 4, 225	320, 358 1, 400	378, 878 5, 625			U.S.C., supp. V, title 16, secs. 715-715 r. Do.
Disease investigations.  Maintenance of migratory bird conservation refuges.	33.00	3, 480 5, 183	2, 220	5, 700 9, 797			Do.
Total	135.00	71, 408	328, 592	400,000			
Migratory Bird Conservation Commis-	1.00	333	1, 167	1,500			U.S.C., supp. V, title 16, secs. 715-715 r.
Cherry 19 Bottoms Migratory Bird	5.00	10,947	6, 479	17, 426			U.S.C., supp. V, title 16, secs. 691-691 d.
Malbeur Lake Bird Refuge 12	22.00	23, 148	9,830	32, 978			Do.
Total	1, 712.00	1, 059, 389	761, 484	1,820,873		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

	U.S.C., title 5, secs. 511, 512, 524; Act Feb. 23, 1931,	Do. Do. Do.	U.S.C., title 5, secs. 511, 512, 524; Act Feb. 23, 1931, vol. 46, pp. 1261, 1262.	Act Feb. 23, 1931, vol. 46, p. 1275.		U.S.C., title 5, secs. 511, 512, 524; Act Feb. 23, 1931,	V0. 70, 10 to 1001. D0. D0.	90.00		Do.	U.S.C., title 5, secs. 511, 512, 524; act Feb. 23, 1931,	Do.		U.S.C., title 5, secs. 511, 512, 524; act Feb. 23, 1931, vol. 46, p. 1262.	Do.	
												,				
	61, 531	3, 630 6, 460 15, 688	1, 700, 975	1, 788, 284	1, 909, 749	83,820	111, 300 68, 340 97, 977	14, 275 11, 026 33, 935 13, 330	434, 003	90, 551	78, 384	33, 315	111, 699	36, 277	29, 985 35, 540	65, 525
	5, 547	140	373, 958	380, 173 46, 932	427, 105	18, 976	13, 558 22, 892 25, 770	3, 908 950 6, 150 1, 280	93, 484	14, 036	9, 517	2,854	12, 371	4,982	12, 133 31, 250	43, 383
_	55, 984	3, 630 6, 320 15, 160	1, 327, 017	1, 408, 111	1, 482, 644	64, 844	97, 742 45, 448 72, 207	10, 367 10, 076 27, 785 12, 050	340, 519	76, 515	68,867	30, 461	99, 328	31, 295	17, 852 4, 290	22, 142
	26.80	1.50 3.50 7.00	537.30	576. 10 93. 30	699. 40	27. 50	39. 40 19. 00 33. 50	11.2.80 11.30 00.4.00	141. 50	29.90	29. 50	12. 20	41.70	12.90	7.60	9.60
BUREAU OF CHEMISTRY AND SOILS	General administration	Personnel administration Purchasing and warehousing	Disbursing and collecting	Total Total Soil erosion (allotment)	Grand total	Agricultural chemical investigation:	Food research Fruit and vegetable by-products Industrial farm products	Lignin Oil, fat, and wax. Protein and nutrition. Farm fires.	Total	Color investigations	Insecticides and fungicides investigations: Organic insecticides and fungicides-	Inorganic insecticides and fungi- cides.	Total	Plant-dust explosions.	Naval stores investigations: Naval stores investigations Naval stores station	Total

12 Discontinued in 1934,

FUNCTIONS-Continued

	Statutory authority			U.S.C., title 5, secs. 511, 512, 524; act Feb. 23, 1931,	Vol. 70, p. 1202. Do.	Do.	Do.	Do. Do.		Do.		Do.	Do.		Do.
<ul> <li>medicin is distributed in the section of the section</li></ul>	From other funds	Source													
ses	From oth	Amount													
Annual expenditures	From appro-	priated funds		\$41,075	41, 484	34, 625	75, 600	37, 450 46, 135 78, 290	354, 659	42, 180 18, 360	60, 540	229, 555	33, 602 36, 520	299, 677	41,902
Anı		Ouner		\$9, 162	8, 567	4, 322	10,060	8, 672 9, 541 11, 912	62, 236	4, 932 3, 074	8,006	.68, 466	4, 303	75,004	6, 450
	Salaries.	wages		\$31,913	32, 917	30, 303	65, 540	28, 778 36, 594 66, 378	292, 423	37, 248 15, 286	52, 534	161, 089	29, 299 34, 285	224, 673	35, 452
	Number of em-			14. 20	13.50	12.00	26.80	12.00 14.00 26.00	118.50	12.00	17.60	67.80	7.70	92.50	13.10
			BUREAU OF CHEMISTRY AND SOILS—CON.	Fertilizer investigations: Catalysts in nitrogen fertilizer in-	Transformation of nigrogen com-	Biochemical and organic investiga-	Physics and chemical fertilizer in-	vestigations. Phosphate fertilizer investigations. Potash fertilizer investigations Concentrated fertilizer investiga- tions.	Total	Soil chemical and physical investiga- tions. Soil chemistry————————————————————————————————————	Total	Soil survey: Detailed and reconnaissance sur-	veys. Inspection and correlation Map drafting	Total	Soil microbiology investigations.

Do. Do.		Act Feb. 23, 1931, vol. 46, p. 1275.		(U.S.C., title 5, secs. 511, 512; title 7, secs. 401–404; title 26, secs. 578–580; U.S.C., stapp. V, title 7, secs. 385, 385a, secs.	47 Sigh, p. 621. Do. Do. Do.		26, secs. 578-580; U.S.C., supp. V, title 7, secs. 401-404; title 26, secs. 578-580; U.S.C., supp. V, title 7, secs. 385, 385, 422; acts May 31, 1920, 41 Stat. 730; July 7, 1932, 355, 425, 2012 May 31, 1920, 41 Stat. 730; July 7, 1932, 355, 425, 2012 May 31, 1920, 41 Stat. 730; July 7, 1932, 355, 425, 2012 May 31, 1920, 41 Stat. 730; July 7, 1932, 355, 425, 425, 425, 425, 425, 425, 425, 4	47 Sult. 021. Doub. 021. Do.	D D D O O	Do. 0.00	, D D D D D O	Do. Do.	Do.
149, 375 46, 842 9, 925	206, 142	1, 700, 975 121, 465	1, 822, 440	59. 534	3, 030 8, 820 671, 805	743, 189	64, 532	51, 450 155, 777	12, 762 26, 207 30, 775 17, 772	59, 496 29, 419 25, 934 98, 636	7, 723 9, 556 14, 596 15, 379	12, 234 22, 870 16, 687	671, 805
35, 039 16, 642 2, 325	54, 006	373, 958 46, 932	420,890	3 285	400 200 198, 451	202, 336	9, 142	7,364	859 5, 554 3, 505 1, 149	12, 948 7, 179 1, 834 47, 049	3, 755 4, 673 5, 935 6, 030	5, 036 10, 805 9, 127	198, 451
114, 336 30, 200 7, 600	152, 136	1, 327, 017	1, 401, 550	56 240	2, 630 8, 620 473, 354	540, 853	55, 390	44, 086 99, 270	11, 903 20, 653 27, 270 16, 623	46, 548 22, 240 24, 100 51, 587	3, 968 4, 883 8, 661 9, 349	7, 198 12, 065 7, 560	473, 354
44.00 13.00 3.00	60.00	537.30 93.30	630.60	06 86	1.50 4.35 462.95	497.00	16.00	20.95	4. 16 8. 17 9. 17 5. 16	39. 17 9. 17 7. 00 102. 50	11.00 15.00 27.00 35.00	38.00 28.00 37.00	462.95
Soil fertility investigations: Soil fertility investigations. Cotton root-rot. South Carolina station.	Total	Total projectsSoil erosion (allotment)	Grand total, projects	BUREAU OF DAIRY INDUSTRY General administration	Personnel administration.  Purchasing and warehousing.  Accounting and auditing.  Projects, activities, etc.	Total	Dairy manufacturing investigations and introduction.	Dairy-herd improvement.	management. Le cream investigations. Butter and byproducts investigations. Condensed milk and milk powder. Investigations in bacteriology and	chemistry of milws. Nutrition of dairy cows. Cheese manufacturing investigations Market-milk investigations Operation and maintenance, Belfsville,	MG. Missouri experiment station. Ardmore (S.Dak.) field station. Huntley (Mon.) field station. Mandan (N. Dak.) field station.	Woodward (Okla.) field station. Lewisburg (Tenn.) field station. South Carolina experiment station.	Total

			An	Annual expenditures	res		
	Number of em-	Salaries.	041	From appro-	From other funds	er funds	Statutory authority
		wages	Ouner	priated funds	Amount	Source	
BUREAU OF ENTOMOLOGY General administration 13	48.00	\$100, 251	\$6,063	\$106, 314			U.S.C., title 5, secs. 511, 512; title 7, secs. 141-167; TIS C enror IV title 16 sec 581C; act Feb 23 1931
Personnel administration Purchasing and warehousing Accounting and auditing Projects, activities, etc.	2. 00 3. 00 12. 00 1, 782. 00	4, 700 6, 580 22, 275 1, 780, 092	150 186 500 563, 879	4, 850 6, 766 22, 775 2, 343, 971			vol. 46, p. 1283. Do. Do. Do.
Total, Bureau of Entomology 14	1,847.00	1, 913, 898	570, 778	2, 484, 676			Do.
Apple insect investigations	51.00	43, 892	7,775	51, 667			U.S.C., title 5, secs. 511, 512; title 7, secs. 141-167; U.S.C. supp. IV., title 16, sec. 581C; act Feb. 23, 1931,
Peach insect investigations. Grape insect investigations. Nut insect investigations. Blueberry maggot investigations.	77.00 38.00 6.00	64, 638 3, 771 29, 536 5, 218	18, 597 1, 157 7, 683 711	83, 235 4, 928 37, 219 5, 929			vol. 46, p. 1283. Do. Do. Do.
Subtroptal fruit msect investigations: Black-fly parasites. Resistant-seale insects. Parlatoria dato scale. Citrus insects in Gulf region. Citrus insects in Calf region.	7. 00 19.00 13.00 6.00	5, 093 17, 694 4, 082 10, 402 5, 898	4, 734 4, 734 2, 790 1, 578	6, 000 22, 428 4, 513 13, 192 7, 476			Q 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Fruit-dy investigations: In Hawaii In Canal Zone In Moxico Shade tree and hard's sirrib insect in-	6. 00 2. 00 26. 00	6,850 5,127 18,332	625 532 5, 692	7, 475 5, 659 24, 024			Do. Do.
	10.00 9.00 190.00	8, 078 9, 251 128, 590	3, 073 749 37, 505	11, 151 10, 000 166, 095			DO: DO:
Turok crop insect investigations: European earwig Vegetable weevil Turnip aphid. Pepper weevil	8.00 7.00 5.00	7, 084 6, 576 7, 120 4, 500	2, 139 1, 600 1, 112 500	9, 223 8, 176 8, 232 5, 000			D D D D D D

Do.	Do.	Do.	Do.		- C				D0.		511, 512; title 7,	title 16, sec. 581C; act	1931, vol. 46, p. 1263.	Do.	Do.	Do		i e	ro.	٥	Co.	Do.	Do.	Do.		Do.	Do	Do	Do.	Do.	Do.		50	Do	Do.	Do.	Do.	Do	e C		90			500	.00	Do.	, D0.	Do.	
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35	10	00			9	72 72		0,0	Tr	422	34		_	306	08	27	22	00			94	35	00	192		22		33	15	71	66	1	×	25	4	<u>oc</u>		0,0	22			27		or	00	gr	c1	224	
14,	13,	5.	39,	10.	7	45,	i r	-1-	,,,	, 26 , 26	19,			100,	22.	24.	91,		1		54,	47,	7.	90,	-	30.	16,	31,	4	36,	29	41,	40, 298	246	39	107	45.	12	47,	-	0	-00	4	1,9,	- CT	49,			- <sup>1</sup>
	3,840									8, 711				36, 737	6, 262	1,951	4 062	1,000 7,636	0,000	1 1	17, 979	11, 173	1,500	14, 328		6.485		19 666		9. 121	5, 210	3 859	3,968	63,906	12, 337	21, 155	9, 581	8 194	18, 406	10, 120	9 133	1,100	7,000	2, 134	4, U/U	17,698		9,351	
										17,711				63, 569										72,857									36, 330								7 967	14 596	14, 000	607 11	11, 550	31, 597		22,873	
										21.00				84.00										48.00									41.00								000	99	11.00	900	. o	21.00		12.00	F. 09
Celery insects	Sweetpotato weevil	Sweetpotato wireworm	Wireworms in Pacific Northwest	Wireworms in California	•			Lima-bean pod borer			Berry insects	3-:		Sugar-beet insects	Tobacco insects	Mushroom insects		Dulk incode	Duit maeces	Forest insect investigations:	Cooperative control work	Tree-killing insects.	Forest products	Gipsy and other moth investigations	Cereal and forage insect investigations:		Chinch bijo	Grasshonners	Mormon cricket	Caraal insacts	A Ifalfa weevil	Treate and disasses	Forgon insects	European corn borer	Sugarcane and rice insects	Cotton holl weevil investigations	Miscellaneous cotton insects	Thurbaria maarii	Dink hollmorm	Total Polity of Marine	Insects affecting man:	Lye gliab	M 0squito in vestigations	Osteomyelitis	Sand IIV	Insects affecting cattle	Insects affecting poultry and birds	Insects affecting sheep and goats.	insects affecting miscenaueous ammais-i

<sup>13</sup> Including editorial section and library.
<sup>14</sup> Including 1,180 temporary employees, some of whom worked only a few days.

FUNCTIONS-Continued

					-		
			An	Annual expenditures	res		
	Number of em- ployees	Salaries,	Othor	From appro-	From other funds	er funds	Statutory authority
		wages		priated funds	Amount	Source	
BUREAU OF ENTOMOLOGY—continued							
Stored product insect investigations: Bean weevil	3.00	\$3,651	\$3, 262	\$6,913		1	U.S.C., title 5, secs., 511, 512; title 7, secs. 141-167;
		0	00,	000			Vol. 46, p. 1263.
Stored grain	9.6	20, 392	4, 182	35, 647			Do
Dried fruits	2.00	10,073	2,814	12,887			Do.
Confections	38	15,090	19, 902	4 460			
Wood products	1.08	4,600	180	4, 780			Do:
Household insect investigations	3.00	5, 177	1, 231	6, 408	1		Do.
Argentine ant investigations	5.00	5,892	4, 554	10,446			Do.
On beetles	10.00	25, 427	67	25, 494			Do.
On moths	9.50	24,022	89	24,090			D0.
On hymenontera	9.6	10, 191 25, 815	300	10, 491			Do.
On grasshoppers	5.00	5,420	7,000	5, 420	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Do.
On true bugs.	1.50	3,950	42	3, 992			Do.
On leafhonners	96	10, 950	776	4 590			Do.
On aphids	1.	3,400		3, 400	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Do.
On ectoparasites and mites	25.00	5, 182	63	5, 245			Do.
Public relations	38	11, 590	1,021	13, 217			5.0
Bioclimatic studies of insects.	. 63	3,680	546	4, 226			Do.
Wohanga of useful incorts	98	9,400	27.1	9,671	-		Do.
Physiology and toxicology	13.00	27,652	8.463	36, 115	-		
Diseases of bees	2.00	7,307	705	8,012			Do:
Physiology of bees	2.00	11,360	4, 248	15, 608		-	D0.
Rechnological Studies of Dees.	88	7, 030	1,976	9,006			Do.
Beekeeping in Southern States	96	8, 108	2, ±00	10, 255			
Beekeeping in Pacific States	8.00	11,832	2,726	14, 558		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Do.
Total	1, 782. 00	1, 780, 092	563, 879	2, 343, 971			
						_	

		Act of Feb. 23, 1931 (46 Stat. 1242). Do. Do.		Act of Feb. 23, 1931 (46 Stat. 1242). Act of Feb. 14, 1931 (46 Stat. 1160); act of Feb. 23, 1931 (46 Stat. 1242).			U.S.C., title 5, secs. 511, 512; title 7, secs. 91-99, 121-134; title 21, secs. 1-15, 41-50; U.S.C., supp. IV, title 15, secs. 401-411; title 31, secs. 411-40; acf. Feb. 23, 1931	vol. 46, p. 1272. Do. Do. Do.		U.S.C., title 21, secs. 1–15. Do. Do. Do. Do. Do. Do. Do. Do. Do. Do
_							-			
		372 620 888 970	850	352 618	970		70, 903	567 047 323	851	9911 9911 9911 9911 9911 9911 9911 991
		51, 372 1, 620 19, 888 10, 733, 970	10, 806, 850	15, 352 10, 718, 618	10, 733, 970		70,	3, 567 13, 047 17, 011 1, 600, 323	1, 704, 851	28.88.88.88.88.88.88.88.88.88.88.88.88.8
		40, 972	10, 736, 563	10, 695, 591	10, 695, 591		2, 526	267 307 689 303, 202	306, 991	78.17 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		10, 400 1, 620 19, 888 38, 379	70, 287	15, 352 23, 027	38, 379		68, 377	3, 300 12, 740 16, 322 1, 297, 121	1, 397, 860	28 28 28 28 28 28 28 28 28 28 28 28 28 2
_		3.0 1.0 12.4 29.3	45.7	11.7	29.3		40.5	1.0 7.5 7.5 521.4	6.773	0.514.8.18.8.17.4.4.4.4.8.8.1.1.3.9.4.1.8.8.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2
FARMERS' SEED LOAN OFFICE	(Does not include funds transferred from the Reconstruction Finance Corporation)	General administration—Personnel administration—Accounting and anditing—Projects, activities, etc.	Total.	Collection of seed-grain loans	Total	BUREAU OF FOOD AND DRUG ADMINISTRATION	General administration	Personnel administration. Purchasing and warehousing. Accounting and auditing. Projects, activities, etc.	Total	Enforcement of the Food and Drugs Act. Beverage and beverage products. Cereal products. Chocolates and saccharin Dairy products. Figs. Fishery products. Fishery products. Fishery products. Fishery products. Fishery products. Fishery products. Mest products and splees. Must products. Anisolaneous. Anisolaneous. Cruge and ant products. Oils and nut products. Crude drugs. Crude drugs. Fharmaceuticals. Fharmaceuticals. Proprietary preparations.

FUNCTIONS-Continued

			An	Annual expenditures	res		
	Number of em- ployees	Salaries,	4,00	From appro-	From other funds	er funds	Statutory authority
		wages	Other	priated funds	Amount	Source	
BUREAU OF FOOD AND DRUG ADMINIS- TRATION—CONTINUED							
Enforcement of the Food and Drugs Act—Continued Vitamin preparations.	7.8	\$19, 256 10, 134	\$4, 436 2, 387	\$23, 692 12, 521			U.S.C., title 21, secs. 1–15. Do.
Total	411.7	1, 013, 446	247, 119	1, 260, 565			
Enforcement of the Tea Act	20.6	35, 621 27, 291	4,357 6,679	39, 978 33, 970			U.S.C., title 21, secs. 41–50. U.S.C., title 7, secs. 91–99.
	17.6	47, 913	10,637	58, 550			U.S.C., title 7, secs. 121-134.
State cooperation. Chemical, microscopic, and bacteriologic examinations of insections of the cooperation.	29. 2	79, 551	17, 887	97, 438			Do.
	6.7	24, 636	1,864	26, 500			Do.
cides. Testing of efficacy of insecticides and their action on foliage.	8.5	23, 095	5, 205	28, 300			Do.
Total	63.2	175, 195	35, 593	210, 788			
Enforcement of Milk Importation Act	10.7	26, 042 19, 526	6,093 3,361	32, 135 22, 887			U.S.C., supp. IV, title 21, secs. 141-149. U.S.C., supp. IV, title 15, secs. 401-411.
Total	521.4	1, 297, 121	303, 202	1, 600, 323			

# Functions of the Forest Service

		Statutory authority	Agricultural Appropriation	, con contraction of the contrac	Agricultural Appropriation Act and act June 30, 1932. Public, No. 302.		Agricultural Appropriation Act. Do. Do. Do. Do. Do. Do. Do. Do. Do. Do
Annual expenditures, fiscal year 1932	From other funds	Source			Cooperative repayments and undeposited cooperative funds.	op	
expendit		Amount			\$382, 343	382, 343	
Annual	From an-	_	\$325, 708	4, 520 174, 197 88, 008		24, 209, 762	639, 201 956, 201 103, 603 317, 273 317, 273 103, 673 100, 681 18, 751 18, 764 18, 751 18, 775 2, 661, 340 4, 100, 775 371, 883
		Other	\$41,869	56, 736	10, 543, 553	10, 645, 918	
	nd wages	Tempo- rary	\$136		7, 099, 494	7, 099, 930	
	Salaries and wages	Perma- nent	\$283, 403	4, 520 117, 461 84, 248 48, 347	6, 308, 278	6, 846, 257	
of em-	Tempo-	number of em- ployees	2		96, 372	96, 374	
Number of employees	Perma-	nent man- years	121.8	66.0 32.0	2, 564. 3	2,806.1	<u> </u>
			General administration.	Personnel administration  Purchasing and warehousing  Accounting and auditing  Dichuseing and auditing	Projects, activities, etc.	Total, Forest Service	Administration, protection, improvement, reforestation, and extension of national forests.  Administration: Timber use Fish and game protection Recreation and land use. Utilization of water resource. Land class, settlements and claims. Land status, general field drafting. Ing. forest map compilation boundary posting, etc. Reconsulssance of grazing lands. Fish and game surveys. Fish and game surveys and plans. Frish and game surveys and plans. Protection: Fire prevention and detection. Fire suppression. Fire suppression. Fire suppression. Tree of iseases.

Functions of the Forest Service-Continued

		Statutory authority	Agricultural Appropriation Act and act June 36, 1932.	Do.	Agricultural Appropriation Act.	Do.	Do. Do.	Do.		Agricultural Appropriation Act and act June 30, 1932.	Do. Do.	Do. Do. Agricultural Appropriation Act.
Annual expenditures, fiscal year 1932	From other funds	Source			7					repayments osited coopera-	tive funds.	op
expendit		Amount	\$96, 665	16, 714					113, 379	4,000	1, 200 3, 000	2, 428
Annual	From ap-	propriated funds	\$4, 920, 564	1, 959, 527	259, 371	287, 855	80,006	131, 546	19, 130, 538	556, 196	131, 944 97, 376	620, 082 73, 317 60, 765
		Other							\$7, 568, 224			
	nd wages	Tempo- rary							\$6, 700, 195			
	Salaries and wages	Perma- nent							\$4, 975, 498			
of em-	Tempo-	number of em- ployees							92, 107			
Number of em- ployees	Perma-	nent man- years							2,087.2		-	
			Administration, protection, improvement, reforestation, and extension of national forests.—Continued Improvements:  Construction of improvements (telephone lines, trails, fire breaks, truck trails, lookout	Maintenance of improvements (telephone lines, trialis, fire transcriptor, trunk frails, lookout	Highways within national forests 1.	Reforestation: Nurseries and tree planting. Extension of national forest areas,	Land exchanges. Acquisition under act of Mar. 1,	1911, as amended. Forestry extension	Total	Research in forestry: Forest management investigations	Forest range investigations. Forest watershed-protection investi-	Baudons. Porest products investigations Forest economics investigations Forest taxation and insurance investigations.

Agricultural Appropriation	Agricultural Appropriation Act.		Agricultural Appropriation Act.	Do.	Agricultural Appropriation Act and act of June 30, 1932.	Agricultural Appropriation Act.	Do.	Do.
	op	op			Cooperative repayments Agricultural Appropriation and undeposited cooperative funds.		1, 843, 975 1, 967, 447 252, 650 Cooperative repayments and undeposited cooperative funds.	do
4,836		16, 314			252, 650		252, 650	382, 343
208, 112   4, 836  do.	82, 336	1,830,128	640, 869	102, 465	1, 779, 238 252, 650	85, 744	1, 967, 447	96, 372         6, 308, 278         7, 099, 494         10, 543, 553         23, 568, 982         382, 343
		500, 285	631, 069				1, 843, 975	10, 543, 553
		97, 435					301, 864	7, 099, 494
		1, 248, 722	9,800				74, 258	6, 308, 278
		195					4,070	96, 372
		454.9	2.0				20.2	2, 564.3
Forest survey of the United States	Miscellaneous studies by National Forest Organization.	Total	Construction of Forest Products Labora- tory Building. Protection and reforestation of other than	national forest lands: Tree planting in cooperation with	States, under act of June 7, 1924. Fire protection in cooperation with States, under act of June 7, 1924, and with owners of Jands in and adjoin-	ing national forests.  Protection of Oregon and California grant lands.	Total	Grand total

1 Additional expenditure made by Bureau of Public Roads from appropriations set up to and allotments made by Forest Service will be reported by Bureau of Public Roads.

Memorandum to Accompany Report on Functions of the Forest SERVICE

General administration.—The function of general administration includes the general overhead in the District of Columbia which exercises general control over direct or "project" activities of the Forest Service and maintains necessary relationships with and makes

reports to other Government agencies in Washington.

Personnel administration.—Personnel administration in its true sense is, of course, inseparable from managerial or executive function-Personnel administration is a part and often a prominent part of the duty of every executive of the Forest Service from the Chief of the Bureau to the last foreman in charge of a fire fighting or a trail building crew. Such personnel administration necessarily includes the keeping or the supervision of the keeping of records necessary to enable the executive concerned to function effectively in meeting his responsibilities for the management of the personnel responsible to him. It is understood that the report does not contemplate a segregation of the time spent by all of these executives and their assistants on personnel administration; the two permanent employees reported as engaged in personnel administration are the two clerks in Washington who devote practically their full time to the keeping of appointment and related records and preparation of formal recommendations which are necessary for the use of the Chief Forester and his associates and assistants in the Washington office who have responsibilities for personnel administration.

Purchasing and warehousing.—This function is carried as a service to facilitate the activities and projects for which the Forest Service is responsible. The present status and organization of the purchasing and warehousing activity is the result of a long process of trial and error in determining the degree of centralization and location of purchasing and warehousing work which, under the wide variety of conditions involved, will yield acceptable service to productive activities and do it at the lowest cost.

Originally, the only centralization of purchasing and warehousing was at the central office of the Forest Service in Washington, D.C. This proved so unsatisfactory that before 1910 a supply depot was established at Ogden, Utah, to handle stationery, office supplies, and certain standard articles generally used in protection and administration of national forest land. After the disastrous experience with forest fires in 1910 the need was recognized for central warehouses at which stores of tools, supplies, and equipment might be carried for use as needed on large fires any place within the territory served. After some delay and much difficulty in developing techniques which would enable this centralized warehousing service to give the speed and adequacy of service needed in coping with large fires, the obvious desirability of centralizing the purchase and distribution of food and other supplies used in other forest protection activities led to further and profitable but incidental use of the personnel and facilities which had to be maintained any way as a necessary means of meeting fire-suppression needs. Various additional items of equipment and commodities are now handled by such warehouses whenever such centralization actually proves more advantageous, all things considered, than purchase and warehousing directly by the consuming organizations on the national forests themselves or by centralization for the Forest

Service as a whole.

The degree of centralization of purchasing and warehousing under present practice is dependent on a variety of factors. Thus, prompt and adequate furnishing of standard office supplies, stationery, and certain standard articles is most economically handled by one central purchasing, warehousing, and distributing agency serving the entire field work of the Forest Service with its activities in all States and three Territories. Warehousing of tools and supplies needed on fires which escape from local national forest organizations must be handled for smaller geographical units if the indispensible degree of speed and adequacy of service is to be attained. Under some circumstances it is most economical and efficient to locate warehouses for handling of food and other bulky supplies fairly close together. Under some conditions no central warehousing at all is profitable; as for example, in Arizona and New Mexico where the national forests are so widely dispersed and the quantities of goods required is relatively so small that local purchases as needs arise are ordinarily most economical and the warehouses at Denver and elsewhere can be drawn upon for items which those warehouses can furnish most economically.

Purchasing and warehousing to meet the demands of forest-fire work is most important in the national-forest regions which include western Montana, northern Idaho, Oregon, Washington, and California. It has been found profitable to maintain two important warehouses within the limits of the national-forest region which includes Montana and northern Idaho. These warehouses, however, serve more territory than the region in which they are located.

The Forest Service supply depot maintained for many years at Ogden, Utah, for the purchase and distribution of stationery and standard articles which are widely used, is being moved to a new location on San Francisco Bay at which point it will be practicable to conduct with one organization and one set of facilities the service to all national forests which has been carried on heretofore from Ogden and also to add the purchasing and warehousing facilities which are expected to result in material economy in connection with forest-fire work, road construction, and similar activities in the national forests of California and southern Oregon.

To a considerable extent the economy with which centralized purchasing, warehousing, and distributing functions is carried on by the Forest Service is due to the fact that a great deal of flexibility in assignment of personnel is possible and is regularly practiced. Instead of a force having no other duty except that of purchasing, warehousing, and distributing, these duties are ordinarily carried on by employees who combine such work with other administrative, clerical, or construction duties; the employees involved swing from one class of work to the other and back again according to the exigencies and the rise and fall in the demands of the different activities which they are qualified to perform.

Except for the tools and supplies which are held in central warehouses to be sent out over a region or a part of a region as emergency fire-fighting demands may dictate, the centralized purchasing and warehousing of supplies and equipment is conducted by the Forest Service on a "pay as you get" basis. This means that the cost of personnel and other expenses incident to purchasing, warehousing,

down to the minimum.

and distribution must be met from a surcharge which is added to the original cost of the materials and met by charges against the allotments of funds made to the consuming units by which the supplies were requisitioned. This general method sets in motion forces which insure economy in requisitioning of commodities by consuming units and makes certain the practice of good financial management throughout all the intricate business of furnishing supplies and equipment needed for productive work. If there is inefficiency in the management of a central purchasing and warehousing unit, the surcharge which is automatically required to cover such inefficiency is subjected to immediate and forceful criticism from responsible managers of consuming units of the Forest Service. Furthermore, at any time the consuming units can procure cheaper eleswhere than from the central warehouses, they are permitted to do so, which furnishes a further incentive to the warehouse organization to keep its costs

If purchasing and warehousing were to be centralized in Washington or in any other one point by the Forest Service or any other agency serving the Forest Service, practically no difference would result in Forest Service expenditures necessary for purchasing and warehousing as now organized. The over-all cost would doubtless increase. Orders have to originate on the consuming units and nothing is gained by transmitting orders and other paper transactions through more agencies than are necessary in order to consolidate purchases sufficiently to get most favorable rates from manufacturers and producers and in order to get the benefits of shipment in carload lots. When it is profitable to do so, orders for the entire Forest Service are handled in one large pool. For example, orders for tentage and specialized fire equipment which has to be manufactured to order, are regularly consolidated for all consuming units by the officer in charge of the Ogden or Oakland supply depot for the entire Forest Service and purchase and distribution is made at one time for the entire Forest Service. Needs for motor equipment and road-construction machinery are likewise determined on consuming units and covered by requisitions which are transmitted through regular executive channels and pooled by the Washington office of the Forest Service which handles such purchases for the entire Forest Service. Whenever possible, and the delay will not be too disadvantageous, purchase of motor equipment needed by the entire Forest Service is consolidated with purchases of such equipment for the entire Department of Agriculture. The delay and additional expense which is unavoidable with greater pooling and consolidation of purchases, constitutes a disadvantage which must be weighed against the expectation of lower prices offered by manufacturers for larger orders.

Warehouses are strategically located with respect to transportation

facilities (railroads and main highways) in the territory served.

Wherever practicable, supplies and equipment purchased are shipped directly from manufacturer to consuming units, thus avoiding

the expense of warehousing and reshipment.

A great deal of study has been given to the subject and it is believed that the present location of warehouses and degree of centralization represents the best balance between the opposing factors involved. To decentralize further would increase investments and cost of handling. To centralize further would entail undue sacrifice in the

speed and quality of service required by the activities involved. The volume of business of each warehouse, as shown in other reports, is sufficient to permit direct purchases from manufacturers and packers

and also carload shipments of main items.

The service rendered by warehouses involves making shipments of equipment which is often specially packed, tools for improvement work which are often specialized and fire-fighting supplies assembled in special units and containers for man or pack-mule transportation. For example, early experience indicated the imperative need for highly specialized rations which can be carried on the backs of fire guards or in the saddlebags of mounted men when they are sent individually or in pairs to newly discovered forest fires. These rations must be on hand in practically every fire guard station throughout the national forests in order that they may be ready for instant use; but they must be so prepared that if unused for many months they will still be palatable and safe for use by men while undergoing the exhausting labor of searching out and combating small fires. These rations, assembled in packages each of which contains food for 1 man for 1 day, are prepared by and shipped from the Missoula warehouse of the Forest Service to about 200 points throughout the entire United States, Alaska, and Hawaii for use of governmental and cooperative agencies. This highly specialized item of food supply is assembled and shipped by the Missoula warehouse because it can be secured in this way at a lower price than is possible in any other way. The rations require especially prepared food materials, containers, and packing in order that they may meet the requirements of the work as to keeping qualities under adverse conditions, minimum weight and volume, minimum difficulty in preparation for consumption, etc.

Accounting and auditing.—The primary function of accounting is to furnish the managerial organization data essential to effective management and control of the business. Accounting should be adapted to the organization, rather than having the organization designed to fit a preconceived accounting procedure.

The Forest Service is a decentralized organization. Its work is primarily performed locally or regionally and most of it must be handled with a degree of promptness that does not permit of reference to the Forester or by a forest to the regional forester; consequently extensive delegation of authority with commensurate responsibility has been found essential to the best administration of the forests. Experience has shown that this form of organization, by reduction of "red tape" and the more direct application of effort to accomplishment, lowers the cost of operation, and makes it possible to confine the general administration to a relatively small unit. To carry out the principle of decentralization, it is essential that the local officials have direct control of the funds allotted to their respective units, which necessarily presupposes a local accounting record adequate to the effective control of funds and avoidance of overobligation. The centralization of fund accounting in the Washington office of the Forest Service was discontinued about 25 years ago because it was found to be entirely unsuited to the needs of the Forest Service. attempt was made about 10 years ago to centralize the cost accounting in Washington on the theory that immediate local contact with

such records did not appear to be so necessary to proper administration as access to fund accounting records. This centralization required some increase in the Washington personnel, although the work was done principally on Hollerith machines that were already in use for other purposes. It did not result in any noticeable saving in the time required to perform the work on the forests and it caused a considerable increase in the work of the regional offices, much of which was taken care of through overtime rather than an increase in personnel. Accuracy suffered. The local organization, having intimate knowledge of the use of the funds, necessarily made the original distribution. Having no local records, any errors that occurred were not discovered until brought to attention through obvious erroneous results as shown by the final statistics, and then only in the event that the error was great enough to attract attention. After several years' trial of centralization, the cost accounting recently was returned to the forests where, without an increase in personnel, it has been readily absorbed by an organization already heavily burdened, which indicates that there is little difference between the amount of work necessary in the local office under the centralized and decentralized plans. In addition, the work can be handled locally with much greater accuracy and facility than in Washington. The Forest Service is strongly opposed to again centralizing its accounting either in the Washington and regional offices of the Forest Service or in some disconnected organization. As previously indicated, if it were practicable to again centralize this accounting, such change would not reduce the work of the forest and regional personnel for the reason that the time required to submit the data to the central organization would be almost, if not quite, as great as that required to do the accounting locally. Moreover, if the time devoted to this work were entirely eliminated, the reduction in man-hours in most local offices would not be sufficient to be reflected in reduction of personnel. Our past experience in connection with this and other matters has been that the farther the final action is removed from the source, the more expensive it becomes and the more attention it requires. Briefly, centralization is found to be in a large measure the cause of red tape.

Disbursing and collecting.—From superficial consideration it would appear that centralization of disbursing and collecting functions might effect a considerable reduction in cost. In actual practice this has not been the case. The Forest Service has several regional offices in which disbursements for the region are made. In the eastern region and in the Forester's office disbursements are not made by forest personnel, but are centralized in the Department disbursing office; in spite of this the amount of fiscal and related work in these two offices is as great as in those regions where the disbursing function is also performed by the regional office. Based upon the knowledge of the work in the disbursing and nondisbursing offices in the past, I have no hesitancy in saying that the disbursing for the eastern region and the Forester's office could be absorbed by the present personnel at no additional cost whatever and probably with some

reduction in the work of the Department disbursing office.

ADMINISTRATION, PROTECTION, IMPROVEMENT, REFORESTATION, AND EXTENSION OF NATIONAL FORESTS

Aside from the general overhead and facilitating functions which have already been treated, the functions of the Forest Service fall into three main divisions. One division is indicated by the heading above this paragraph. The others which will be treated later are research in forestry and protection and reforestation of other than

national forest lands.

The national forest project or major division of the work of the Forest Service is primarily a matter of direct and complete correlated management of timber and forage producing land. The actual work involved takes many forms and occurs in varying volumes on different national forests or portions of national forests. One important characteristic is that the requirements of different subprojects such as timber use or protection work vary widely by different seasons of the year. Of necessity, all the work required in the correlated management of national forest land is carried out by one organization which must have the largest degree of flexibility in order to swing its resources of time and other facilities from one type of work to another in accordance with variations in seasonal and other demands. Under some circumstances a district ranger who is the local manager in charge of national forest operations on a tract of land varying from 50,000 to 500,000 acres, may on one of his carefully planned trips devote time to every one of the subprojects listed under the heading of administration, protection, etc., of national forests. More commonly the district ranger will, on a single planned trip, devote attention to three or four of these subprojects or activities. Inspectors and supervisory officers from the national forest headquarters, regional or Washington offices of the Forest Service, may act as experts or specialists in some particular line but more commonly cover a number or all of the activities involved in any given ranger district. Direct and complete line responsibility runs from the district ranger up through the forest supervisor, regional forester to the Chief Forester in Washington. From 2 to 10 ranger districts as conditions may dictate are under the supervision of a single forest supervisor. Each regional office supplies supervision, leadership, and inspection for an average of 16 national forests.

Under some circumstances the time and effort of men from all grades and nearly all kinds of work are concentrated on such tasks as fire suppression. When adverse weather conditions wrest a small fire from the fire guards who have been dispatched to it, anywhere from 100 to 1,400 men must be assembled and effectively employed at the earliest possible moment if the spread of the fire is to be stopped. Such emergencies may and do occur at unpredictable moments during the various periods of forest-fire danger on practically all national forests. Preparation for effective action in such emergencies is one of the major considerations dominating policy, organization, and functioning of the entire Forest Service. To the extent that any fire emergency may require it, the first duty of every employee is fire fighting. Timber and range survey crews and experts and specialists of all kinds must, without exception, drop their regular work when they are needed for fire fighting and they are expected to give a good account of themselves on fire fighting jobs to which they may be

assigned. Road, trail, and improvement crews under the control of the Forest Service are always selected with an eye to fitness of the men for fire fighting and whenever possible such crews are given the same annual training in fire work as is given to regular fire guards. These road, trail, and improvement crews, because of the fact that they are composed of picked men already working in organized groups, have proved invaluable in large fire emergencies. A 10-man road crew may be and often is equal to a 200-man unorganized and untrained crew hurriedly recruited from a labor center for fighting a large fire. After all trained and organized men have been hurried to a fire, the men in such road and improvement crews constitute an indispensable source of trained and experienced foremen and straw bosses to direct the work of additional temporary employees when additional men have to be recruited from labor centers.

On the other hand, fire guards and lookout men who are employed especially for fire duty, are shifted to improvement work whenever a rainy period occurs during the fire season and such men are therefore not needed on fire duty for a few days. Insofar as possible, men perform fire duty and improvement work at the same time; as when a lookout man keeps watch for fire but also works on a lookout cabin being constructed on his mountain peak; or when a fire guard works on a pasture fence at his station but keeps near him an extension bell on emergency wire so that he may be called at any moment when it

may be necessary to dispatch him to a fire.

District rangers, forest supervisors, and other executive employees already on the ground manage all sorts of construction work in connection with their other duties at a fraction of the cost which would be necessary if road, trail, and other improvement work were managed by a separate personnel having no other duty to take them into the territory involved.

### RESEARCH IN FORESTRY

America is facing enormous problems in forest-land use and in permanently meeting forest requirements. The Forest Research Act approved May 22, 1928 (45 Stat. 699–702), provides a comprehensive coordinated program to supply the scientific foundation to meet these

problems, particularly:

1. Productive use of forest land in the United States which aggregates about one fourth of our entire land area. This includes growing of wood and other forest products sufficient to meet American requirements which are now nearly half of the world requirements. It also includes making lands most effective for watershed protection and for assuring satisfactory production and use of the forage and other forest resources. It includes the reforestation of millions of acres of abandoned or submarginal agricultural land. Productive use is important because the permanence of forest industries depends absolutely upon continuous wood supply.

2. Aid in making timber growing profitable through more efficient manufacture and utilization and in providing the public most economically with needed forest products. The enlargement of merchantable yields of lumber and other forest products, the utilization of waste and of species now considered inferior or worthless, and the development

of new uses and improved practices.

3. The development of sound economic forest-land policies, Federal,

State, regional, etc.

The Federal Government has a very direct and definite responsibility for solving the technical problems involved in formulating sound policies and courses of action on the national forests. Beyond this it has a vital responsibility in solving problems national and regional in scope, which concern forest resources both public and private.

A fundamental characteristic of the broad field of forest research is the close interrelationship that exists between the different classes of studies. The forest itself is a complex biological unit. Forest land is a multiple-use resource important for timber production, watershed protection, recreation, for forage and wild-life production, and for many miscellaneous minor uses. Intelligent and efficient forest management depends upon a basic knowledge of these varying aspects in their relations to each other. The character and effect of many economic factors must be associated and correlated with the biological factors in order to determine the appropriate intensity of forestry practice, the correlation between public and private ownership, and the formulation of policies and programs of action.

Extensive cooperation has been developed in handling all phases of the investigations with States, counties, municipalities, industries, and private agencies. Actual expenditures by many of these cooperating

agencies are not available.

Only through a comprehensive, closely coordinated and unified program of forest investigation can the basis be secured for intelligent forestry and for making efficient use of our present and potential forest resources. This essential coordination and unification of research is secured by carrying forward the several classes of research at 12 regional forest experiment stations and the Forest Products Laboratory, a national institution, all coordinated under the research branch of the Forest Service.

The research of the Forest Service is broadly classified as follows: Forest-management investigations.—Forest-management investigations are designed to determine how to grow, manage, and protect from fire timber stands of valuable tree species which are found under a wide variety of conditions throughout the country. They aim to determine how best to reforest thousands of acres of denuded, eroding, and submarginal agricultural land in all parts of the country. They aim to work out methods of converting the ragged and inferior forest and brush cover found on large areas of fire-swept and mismanaged lands into rapidly growing forests of desirable species. They aim to determine those methods of cutting and logging which will permit the rapid and natural reforestation of the 10,000,000 acres of forest land cut over annually. They aim to determine for the many complex forest types of the United States their rate of growth so that the forest owner may determine how much wood may be removed from his forest annually under sustained yield. They aim also to furnish the basis for determining how many acres of forest are needed to maintain a mill on a perpetual basis and thereby assist in the stabilization of wood-manufacturing plants, and in maintaining the social and economic values of the forest.

The work includes studies of how best to prevent and to control forest fires that annually burn over some 40,000,000 acres and cause losses of over \$60,000,000. Investigations are also made to determine

how to better existing methods of detecting fires, of organizing fire control forces, and how to increase the speed of attack so that the

area burned over will be kept at a minimum figure.

Forest range investigations.—This research aims to develop improved methods of management for forest ranges. It includes studies in restoring and maintaining the stand of valuable native forage plants and methods of grazing them to afford stable, profitable livestock production; practical methods for artificial reseeding of depleted ranges; harmonizing grazing management with timber production and watershed protection; and reducing fire hazard by grazing. Application of results have already brought more economical production and savings of several millions of dollars annually to the range livestock industry through improved range feed, safeguards against drought, etc. The work is basic to the production of an important product of the 334,000,000 acres of forest land within the United States which are grazed, and hence to national forest administration and to forest-land use in general.

Forest watershed-protection investigations.—The purpose of forest watershed-protection investigations is to determine the effect of forest, brush, or other wild and natural cover upon erosion and upon stream flow. It is to determine whether such vegetative cover may be used as the major means of obtaining satisfactory conditions of water flow and of controlling erosion on watersheds. It is to determine how to conserve moisture for the growing of forest and forage crops, and to deliver the maximum amounts of usable water for irrigation, municipal use, power, navigation, etc. It is to make waste lands productive, to protect against destructive floods, and to safe-

guard public and private works.

Forest products investigations.—Research in forest products is designed to increase the value of the forest crop through improvements in wood utilization, the development of new uses for wood, and the utilization of waste and of tree species now considered inferior or worthless. The work includes, for example, the strength properties of wood, improved methods of fabrication and design, wood preservation by chemicals to prevent decay and decrease inflammability, painting and gluing of wood, pulp, and paper making possibilities of various woods, improved methods of seasoning wood, and methods of cutting to improve the stand and to assist in the profitable and permanent management of forest properties. The expansion and diversification of the markets for timber crops are vital to the profitable and most economically efficient use of our forest land, and especially in justifying the expense and effort involved in bringing large additional areas of land not needed for agriculture into forest production.

Forest economics investigations.—These studies deal with the economic factors which control the use of forest land for producing timber and for other major forest-land products or services. Specific factors or problems being studied include the costs of forestry measures and the returns derived from them; means of aiding and stimulating the development of forestry on privately owned lands; the trends of prices for timber and timber products; the situation as to tax-delinquent forest land; and coordinating public and private responsibilities and activities in ownership and use of forest land. Such studies are fundamental to solving the difficulties confronting

forest-land ownership and management, both public and private, and to coordinating policies and plans for forest use with other major

uses, such as agriculture.

Forest taxation and insurance investigations.—The property tax has long been recognized as an important obstacle to the best use of forest properties in the United States. Many States, over a long period, have tried unsuccessfully to devise satisfactory systems of forest taxation. This work by the Forest Service is a thorough investigation of existing conditions for the purpose of developing practicable and equitable methods that will both equitably coordinate the tax burden on forest properties with that on other classes of property and be adapted to the peculiar requirements of timber growing. Reform in forest taxation vitally affects the management of privately owned forest land from the public interest standpoint, and the coordination between public and private ownership and management of forest land. The work in forest insurance has for its purpose the determination of sound principles and practicable methods of forest insurance as a needed stimulus to better private forest-land management.

Forest survey of the United States.—The function of this project is a complete field inventory of the extent, location, and condition of forest lands of the United States; the determination of the quantity, kinds, quality, and availability of timber now standing on these lands; the rate of depletion through cutting, fire, insects, disease, and other causes; the current and probable future rate of timber growth and the productive capacity of our forest area; and the present and probable future requirements for forest products in the different parts of the country by all classes of consumers; all for the purpose of making the most economically sound use of our forest-land resource plus the possibility of using for forest purposes large areas of submarginal farm land. The data obtained are basic to the formulation of policies, national and regional; and to the development of forestry and the most effective use of forest land in the

United States.

### FOREST PRODUCTS LABORATORY BUILDING CONSTRUCTION

This building was constructed at Madison, Wis., to provide adequate facilities for the forest products laboratory. It was completed during the fiscal year 1933.

### PROTECTION AND REFORESTATION OF OTHER THAN NATIONAL FOREST LANDS

The Forest Service cooperates with 37 States and 1 Territory in the protection of State and privately owned land from fire. About 228 million acres of forest land are so protected, approximately one quarter of the cost being borne by the Federal Government. Actual protection work is carried on by State organizations or owner associations.

The functions of the Forest Service are to make surveys and reports as to the need for fire protection in the several States, and to recommend fire-protection systems suitable to State needs when so requested by State officials; to pass on the protection systems initiated by the States and to enter into agreements for cooperation when the State

systems are acceptable; to see to it that the Federal funds and the cooperative State and private funds are used for the purposes intended; and to furnish technical advice and assistance in conduct of the protection work.

In many cases State and privately owned land adjoins, or intermingled with, national forests. Where this situation exists, the States and private protection associations cooperate with national forest officers in exchange of services for the common protection of all of the land involved.

The Forest Service also cooperates with 38 States and 2 Territories in the production and distribution of forest planting stock to farmers, through a small contribution of about \$2,000 annually per State and

through technical advice and assistance.

Both in protection of forest lands from fire and in forest planting the results of Forest Service research work and of the experience and knowledge gained on the national forests are made available to State and owner organizations. In some instances State and private organizations also cooperate with the Forest Service in the conduct of experimental work, the results of which are needed for protection and other forestry practices.

E. A. SHERMAN, Acting Forester.

## STATEMENT 2 FUNCTIONS

			An	Annual expenditures	res		
	Number of em-	Salaries		From appro-	From oth	From other funds	Statutory authority
		wages	Otner	priated funds	Amount	Source	
GRAIN FUTURES ADMINISTRATION							
General administration 1	15.0	\$38, 148	\$5,697	\$43,845	None		U.S.C., title 7, secs. 1–17. Do.
Purchasing and warehousing.							Do.
Disbursing and collectingProjects, activities, etc	50.4	123,028	26,867	149, 895	None		Do.
Total	65.4	161, 176	32, 564	193, 740	None		
Field activities	50.4	123, 028	26,867	149, 895	None		Do.
BUREAU OF HOME ECONOMICS							
General administration	10.0	20,640	1,280	21, 920			U.S.C. title 5, secs. 511, 512; acts June 5, 1924, 43 Stat.
Personnel administration Accounting and auditing Projects, activities, etc.	1.3 1.7 68.0	2,760 2,820 154,861	100 100 54, 358	2, 860 2, 920 209, 219			p. 200, 011.9 1, 200.5, 21 Done: p. 000. D0. D0.
Total	81	181, 081	55, 838	236, 919			
Home economics information	9	12,080	12, 154	24, 234			Do.
Foods and nutrition: Utilization of food productsStudies in human nutrition	9:	23, 240	12, 121 9, 302	35, 361			Do. Do.
Composition of foodsInstitutional cookery	9	14, 100	1, 952 2, 081	16,052			Do.
Household management and standards of living:	67	11 709	9 271	14 063			Do
Family budgets Food consumption	4.0	7,560	1, 481 1, 899	9,041			Do.

1 General administration is included with the project in all budget figures.

## FUNCTIONS-Continued

			An	Annual expenditures	res		
	Number of em- ployees	Salaries,		From appro-	From other funds	er funds	Statutory authority
		wages	Torra	priated funds	Amount	Source	
BUREAU OF HOME ECONOMICS-COD.							
Household management and standards of living—Continued.	i i	000	507	000			
Household equipment studies	9.	2,700	31, 400	4, 573			U.S.C. title 5, secs. 511, 512; acts June 5, 1924, 43 Stat. p. 455; July 7, 1932, 47 Stat. p. 639.  Dos.
Textiles and clothing: Cotton utilization Wool utilization	10	25, 766 9, 673	4, 234	30,000			Do. Do.
Total	89	154, 861	54, 358	209, 219			
LIBRARY General administration Personnel administration	1.0	4,600		4,600			Salaries and expenses, library.
Purchasing and warehousing Accounting and auditing	7.	1, 522		1, 522			DD. JO.
Projects, activities, etc.	36.0	66, 511	37, 483	103,994			Do.
Total	37.7	72, 633	37, 483	110,116			
Administration and business service	7.2	10,855 20,265	6, 987 30, 496	17,842			Do. Do.
Classifying, cataloging, etc	9.2	18, 200 17, 191		18, 200			Do. Do.
Total	36.0	66, 511	37, 483	103, 994			
BUKEAU OF PLANT INDUSTRY General administration Personnel administration	77.7		11, 634	148, 868			Agricultural Appropriation Act for 1932.
Pruchasing and warehousing Accounting and auditing	22.0			12,335			Do.
Disbursing and collecting  Projects, activities, etc.	3, 148.0	3 6, 600 4, 001, 877	1, 352, 343	6,600			Do.
Total	3, 264. 0	4, 206, 946	1, 363, 977	5, 570, 923		1	
						_	

						4													1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
296, 086	213, 766	22, 605 3, 408 8, 143	, 484	425, 292 128, 610 36, 633	143, 238	53, 362	34, 327 16, 283	35, 659	36, 238		70, 196 34, 675	, 655	, 288	80,980	29, 827	, 214	120, 886	68, 000	34, 934
2,375 104,619	50, 363 71, 699	1,582 349 4,067	65 091	19, 310 19, 310 2, 776	38, 915	21, 924 6, 310	3, 212 5, 894	41, 051 7, 252	8, 129		15,002	6,61	10, 53	17,045	10,093	83	31, 520	14, 559	15,000
57, 515 191, 467	163, 403 188, 952	21, 023 3, 059 4, 076		109, 300 109, 300 33, 857	104, 323	31, 438 18, 179	31,115 10,389	140,310 28,407	28, 109		55, 194 30, 037			63, 935	19, 734		89,366	53,441	19, 934
- 27. 0 - 346. 0	135.0	1.00	5.0	16.0	0.09	21.0	15.0	132.0	22.0		33.0			- 47.0	243.0	3.0	46.0	23.0	- 10.0
Arlington farm Barberry eradication	Eastern control program	Botany.  Weed investigations.  Blueberry investigations.	Grass investigations	Corn and grain sorghums	Cotton production and diseases: Acclimatization, breeding, and cul-	Cotton diseases	Drug and related plants: Drug, poisonous and oil plants Downy mildew of hops	Dry-land agriculture: Dry-land crop production Dry-land fruit and vegetable pro-	unction. Cooperative shelter - blet demonstrations and experimental test	plantings. Forage crops and diseases:	Alfalfa Red and sweet clover	Soybeans	Winter legumes, green manures, and	Pastures, grasses, and fine turf	Foreign prant Introduction: Foreign explorations Experimenters' service	Plant geography	Diseases of forest trees and forest	Diseases of shade trees, shrubs, and	Tree disease emergencies

<sup>2</sup> Part-time employees.
<sup>3</sup> Balance of salaries carried under project to which officers attached.

FUNCTIONS-Continued

	Statutory authority															
	er funds	Source											7   1   5   1   1   1   1   1   1   1   1			
res	From other funds	Amount														
Annual expenditures	From appro-	priated funds		\$263, 291	159, 521	126, 671	153, 202	257, 874	116, 663	92, 181	267,342	98, 020 36, 268	30, 607 22, 327 5, 990	49, 291	4.300	
An	20170	Otner		\$86,362	44, 416	41, 109	54, 702	69, 575	27, 268	20, 570	77,066	6, 401	7,553 5,563 1,010	6, 115	1.662	
	Salaries.	wages		\$176,929	115, 105	85, 562	98, 500	188, 299	89, 395	71, 611	190, 276	91, 619	23, 054 16, 764 4, 980	43, 176	2. 638	
	Number of em-			119.0	58.0	59.0	56.0	120.0	56.0	45.0	89.0	62.0	10.0	18.0	2.0	
			BUREAU OF PLANT INDUSTRY-COD.	Fruit and vegetable crops and diseases: Apple, peach, and other orchard fruit production, improvement, and disease control in the North-	ern and Central States. Citrus, date, and other subtropical	and disease control in the South. Grape, berry, and other small fruit production, improvement, and	Pecan, walnut, almond, and other nut production, improvement,	and disease control.  Vegetable production, improvement, and disease control (except	Nursery stock, bulb, and orna- mental plant production, im-	provement, and disease control. Potato production, improvement,	Storage, transportation, and uti-	Gardens and grounds	Mycology and disease survey: Epidemiology and disease survey Mycological collections Mushroom investigations	A study of the nature, distribution,	and deathlett of diseases caused by certain nemas; studies concerning fibers and living cells.  A study of the mermithidae, a large	and important group of nemas infesting insects.

									U.S.C., title 5, secs. 511, 512; title 7, secs. 141–167; U.S.C., supp. V, title 7, secs. 146, 161, 164a, 165a; Agricultural Appropriation Act Feb. 23, 1931, vol. 46,	PD. 444. Do. Do. Do. Do.	Do.	Ę	Do	D.,		
77,706 2,151 17,764	45,416	55, 378 31, 272	48,061 25,834 250	121, 638 269, 917 90, 036	141, 147	. 35, 119 5, 042	5, 354, 220		64, 786	4, 410 59, 090 57, 889 6, 150	3, 403, 063	630 03	291, 765 278, 873 32, 753	13, 184 18, 246 20, 239	724, 913	
26, 665 943 3, 728	13, 936	15, 920 9, 131	8,354 3,778 250	37, 738 80, 974 20, 929	51, 501	9,609	1, 352, 343		11, 212	37,390 2,596 2,596	670, 966	1 009	27, 501 78, 979 78, 793	6,075 2,620 3,137	120, 988	
51,041 1,208 14,036	31, 480	39, 458 22, 141	39, 707 22, 056	83, 900 188, 943 69, 107	89, 646	25,510 4,941	4,001,877		53, 574	21, 700 21, 700 55, 293 5, 486	2, 732, 097	070 79	264, 264 199, 894 31, 960	7, 109 15, 626 17, 102	603, 925	
34.0	21.0	31.0	18.0	53. 0 105. 0 38. 0	91.0	17.0	3,148.0		25. 10	2.00 10.85 26.56	4, 488. 50	90	175.40 100.00 12.00	33.50 8.00	359, 80	
Phony peach eradication National Arboretum Plant nutrition	Accimalization and adaptation of	Rubber production investigations. Fiber plant investigation.	Sed testing. Federal Seed Act International Seed Testing Con-	Sugar plant investigations: Sugarcane investigations. Sugar-beet investigations. Tobacco investigations.	Agronomic investigations on irri-	gauon projects. Boron investigations. Irrigation and ground water investigations.	Total	BUREAU OF PLANT QUARANTINE	General administration		Projects, activities, etc	Enforcement of foreign plant quarantines:	Infort and perful service.  Port inspection service.  Mexican border inspection service.  District of Columbia inspection	Service. Field inspection permit material Hawaiian inspection service Puerto Rican inspection service	Total	

FUNCTIONS-Continued

			An	Annual expenditures	res		
	Number of em-	Salaries.		From appro-	From oth	From other funds	Statutory authority
		wages	Otner	priated funds	Amount	Source	
BUREAU OF PLANT QUARANTINE—COD.				0			
Transit inspection	18. 10	\$34, 438	\$7,752	\$42, 190			U.S.C., title 5, sees. 511, 512; title 7, sees. 141-167; U.S.C., supp. V, title 7, sees. 144, 161, 164a, 165a;
Control and prevention of spread of	412. 40	269, 712	76, 290	346, 002			Apricational Appropriation Act Feb. 25, 1951, Vol. 40, D. 1271, 1272.
Control of spread of Spread of	36.75	56,845	6, 199	63,041			Do.
Control and prevention of spread of	6.80	18,940	4, 754	23,694			Do.
ition of	466.00	468, 431	113, 165	581, 596			Do.
Control and prevention of spread of	2, 091.80	009,699	148, 679	818, 279			Do.
Control and prevention of spread of	769.85	307, 362	87, 305	394, 667			Do.
Control and prevention of spread of histor must	2.80	7, 295	2, 270	9, 565			Do.
Control and prevention of spread of	4.40	7,940	3,446	11, 386			Do.
Control and prevention of spread of	290.30	89,049	34, 521	123, 570			Do.
Certification of exports. Mediterranean fruit fly. Technological work.	9.00 17.50 3.00	21, 500 25, 234 11, 616	38 11, 382 2, 065	21, 538 36, 616 13, 681			D
Total	4, 488. 50	2, 591, 884	618, 854	3, 210, 738			
BUREAU OF PUBLIC ROADS							
General administration Personnel administration Purchasing and warehousing Accounting and auditing Projects, activities, etc.	148.0 2.0 30.0 70.0 5,230.0	279, 424 5, 060 58, 290 142, 529 3, 777, 659	51, 395 400 10, 286 9, 098 203, 809, 870	330, 819 5, 460 68, 576 151, 627 206, 060, 996	1, 526, 533		
Total	5, 480. 0	4, 262, 962	203, 881, 049	206, 617, 478	1, 526, 533		

U.S.C., title 5, secs. 511–512. U.S.C., title 23, secs. 1-54. d. Stat. 1031. U.S.C., supp. V, title 23, sec. 3. 45 Stat. 885; 46 Stat. 427, 1563. 46 Stat. 1857. 1276. 46 Stat. 1872. 1276. 45 Stat. 1871–1382. 46 Stat. 1381–1382. 46 Stat. 1563. 41 Stat. 234, 270. U.S.C., title 16, sec. 503. U.S.C., title 16, sec. 503. U.S.C., title 16, sec. 501. U.S.C., title 16, sec. 501.	46 Stat. 1031.		U.S.C., title 5, secs. 511, 512; title 7, secs. 361-366, 368-371, 373-382; U.S.C., supp. V, title 7, sec. 386f, act of Feb. 23, 1931 (46 Stat. 1245, 1246).	Ş	U.S.C., title 7, secs, 301–308, 362, 363, 365, 368, 377–379;	act of Feb. 23, 1931 (46 Stat. 1245). U.S.C., title 7, sec. 369, acts of Mar. 16, 1906 (34 Stat. 63) and Feb. 23, 1931 (46 Stat. 1245). II. S. C., title 7, sec. 361, 366, 370, 371, 373-376, 380, 382.	act of Feb. 23, 1931 (46 Stat. 1245). U.S.C., supp. V, title 7, secs. 386-386b; act of Feb. 23, 1931 (46 Stat. 1245). U.S.C., supp. V, title 7, sec. 386c; act of Feb. 23, 1931 (46 Stat. 1245).
		,					
9, 525	1, 011, 001	1, 526, 533					
129, 30, 601 129, 30, 601 1, 948, 513 2, 195, 683 1, 154, 802 1, 154, 802 140, 570 678, 118 124, 821 124, 821 124, 821 124, 821 127, 944 107, 944 21, 140	2,079,931	206, 060, 996	154,018	4, 775, 927	750,000	750,000	22,000
127 311, 673 18, 912, 432 1, 922, 849 1, 922, 849 1, 922, 849 1, 115, 605 140, 570 678, 118 90, 896 1, 314 1, 314 1, 314 1, 314 1, 314 1, 314 1, 314	2,075,052	203, 809, 870	9,811	4, 470, 301	750,000	750,000	22,000
25,664 235,544 235,544 2,150 2,150 33,925 8,211 1,378,721 1,1608 7,2993 7,2993	4,879	3, 777, 659	144, 207	305, 626			
1, 610.0 16.0 589.0 589.0 1.0 1.0 1.0 2, 730.0 173.0	19.0	5, 230. 0	50.0	197.6			
Highway investigations. Federal-aid highway system Foderal-aid highway system Fublic lands highway, E.C., 1931 Fublic lands highway, E.C., 1931 Florida Florida Geogra and South Carolina Alabama Vermont, New Hampshire, and Kentucky. Missouri, Missisippi, Louisiana, and Arkanasa. Bursau of Arkanasa. Buldings, Government Island, Calif. Bursau of Public Roads cooperative in- Forest toad dunds: Forest toad development. Forest toad development. Forest road development. Forest toad development. Forest road development.	Highways within national forest, E.C., 1931.	OFFICE OF EXPERIMENT STATIONS	Administrative expense: General administration	Total	Payments to States, Hawaii, and Alaska: Act of Mar. 2, 1887	Act of Mar. 16, 1906	Act of May 16, 1928.

## FUNCTIONS-Continued

			An	Annual expenditures	res		
	Number of em- ployees	Salaries,	04160	From appro-	From oth	From other funds	Statutory authority
		wages	Other	priated funds	Amount	Source	
OFFICE OF EXPERIMENT STATIONS—CON.							
Salaries and general expenses, insular experiment stations: Alaska. Hawaii. Pueric Rico. Guam. Virgin Islands.	15.10 26.80 50.60 30.50 24.60	\$37, 686 35, 736 42, 511 23, 541 21, 945	\$15, 104 6, 247 11, 194 4, 187 6, 758	\$52,790 41,983 53,705 27,728 28,703			Act of Feb. 23, 1931 (46 Stat. 1245, 1246). Do. Do. Do. Do.
Total	147.60	161, 419	4, 460, 490	4, 621, 909			
BUREAU OF EXTENSION SERVICE							
General administration Personnel administration Projects, activities, etc.	4, 40 3, 50 2, 444, 19	15,850 6,900 1,470,611	967	16, 817 6, 900 10, 336, 027			
Total extension service	2, 452.09	1, 493, 361	8, 866, 383	10, 359, 744			
State payments: Cooperative agricultural extension work, permanent annual Smith- Lever.			4, 605, 866	4, 605, 866			U.S.C., title 7, secs. 341–345; U.S.C., title 7, secs. 341–345 and Agriculture Appropriation Act; U.S.C., supp. V, title 7, secs. 343a, 343b; U.S.C., supp. V, title 7,
Supplementary Smith-Lever. Capper-Ketcham Alaska Additional cooperative extension work.			1, 580, 000 1, 480, 000 10, 000 986, 600	1, 580, 000 1, 480, 000 10, 000 986, 600			sec. 386c, Agriculture Appropriation Act. Do. Do. Do.
Total State payments			8, 662, 466	8, 662, 466			
Cooperative extension work. Economic extension work. Reclamation demonstrations. Motion pictures.	12, 311, 69 8, 50 25, 10	1, 197, 986 24, 541 39, 100 52, 654	121, 544 19, 509 29, 067	1, 319, 530 44, 050 39, 100 81, 721			Do.

Agricultural exhibits at fairs. Cooperative farm forestry. Total.	3 37. 00 2, 444. 19	90, 929 65, 401	31, 031 1, 799 202, 950	121, 960 67, 200 1, 673, 561		Do. U.S.C., title 16, secs. 564-570.	
Grand total	2, 444. 19	1, 470, 611	8, 865, 416	10, 336, 027			
OFFICE OF INFORMATION General administration	2.0	10, 400		10,400		U.S.C., title 5, sees. 511, 512; act May 27, 1930, vol. 46,	· FC
Personnel administration. Projects, activities, etc. (summary of details shown below).	190.0	1, 536	1, 016, 167	1, 536 1, 389, 548		pp. 394, 395. Do.	MOII
Total.	192.6	385, 317	1,016,167	1, 401, 484			.UIV
Salaries and general expenses: Office of director	3.0	10,620	885 2,084	11, 505		Do.	TO GI
Mail and files	11.9	17, 418 15, 460 21, 759	3,937	18, 123 19, 397 22, 027		D	TIL
Indexing Illustrations Photographic	11.0	23, 020 28, 020 28, 020	124	10, 584 24, 000 32, 260		PO.	בעני
Printing. Mailing lists.	4.9	11,741	127	11,868		À Ò Ò Ò	AA
Addressing, duplicating, and mail-	. 23. 23. 20.	95, 052 84, 838	10,813	95, 651		Do.	- JL _1VJ
mg. Press service Radio service.	16.3	41,586	1,049	42,635		Do.	ארמדו
Total	190.0	373, 381	29, 167	402, 548			- '
Printing and binding: General printing			812, 859	812, 859		U.S.C., title 44, secs. 111, 212-220, 222, 224, 241, 244, 257;	OF E
(Includes job work and binding periodicals, reports, and publications; research and technical publications; and popular publications; with the exception of Farmers' Bul-						act reb. zs, 1931, vor. 40, p. 1244.	IGINIO O LI
Farmers' Bulletins			171, 226 2, 915	171, 226 2, 915		Do. Regulation No. 24 of the Joint Committee on Printing.	LUI.
Total			987,000	987,000			ענ
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1 Includes 2,191 extension agents cooperatively employed with States and counties.

1 predamation extension agents cooperatively employed with States.

1 Includes 36 extension foresters cooperatively employed with States.

FUNCTIONS-Continued

	Statutory authority			Appropriation Act for the Department of Agriculture. Do. Do. Do. Do.			
	er funds	Source					
res	From other funds	Amount					
Annual expenditures	From appro-	priated funds		\$90, 946 6, 250 27, 606 33, 400 3, 971, 505	4, 129, 707	840,872 554,204 620,894 620,894 215,894 81,438 8,104 8,104 8,104 8,104 8,104 8,104 11,31,31 11,31,05 3,415 6,980 11,31,076 13,33 34,733	
Anı		Other		\$5,056 350 1,566 1,740 1,047,729	1, 056, 441	263, 018 155, 603 200, 572 30, 572 30, 572 30, 572 30, 503 20, 018 28, 018 29, 018 29, 018 29, 018 29, 018 29, 018 29, 018 29, 018 29, 018 20,	
	Salaries.	wages		\$85,890 5,900 26,040 31,660 2,923,776	3, 073, 266	577, 854 429, 601 420, 755 420, 755 10, 524 11, 072, 815 11, 072, 815 11, 935 2, 923, 776	
	Number of em-			44 14 234 14 14 16 4 4, 050	4, 127	431 291 435 1,101 233 8 8 2 2 2 2 2 2 1,184 10 10 10 10 10 10 10 10 10 10 10 10 10	
			WEATHER BUREAU	General administration Personnel administration Puctasing and warehousing Accounting and auditing Projects, activities, etc.	Total	Meteorological observations and reports. General forecasts and warnings. Glimatology Agricultural meteorology River and flood service River and flood service Norest fire-weather warning service Solar radiation. Fruit-frost service Harvest weather and fruit-spray service Agrest west weather and fruit-spray service Agrest weather and fruit-spray service. Aviation forecasts and warnings. Ourmertial airways meteorological service service. Total.	-

<sup>4</sup> Includes 2,633 wage employees paid at rates varying from 25 cents an observation to \$100 a month.

List of officers and employees in the Department of Agriculture receiving compensation at the rate of \$5,000 or more per annum

		•	
	Brief description of duties	Controls and supervises work of Department.  Initiates, reviews, and coordinates Department's scientific and research activities. General charge of development and coordination of extension work.  In charge of Bureau of Animal Industry.  Plans, organizes, and directs work of Food and Drug Administration.  Legal adviser to Secretary. Directs and supervises Department's law work.  Assists in general supervision of work of Department.  In charge Bureau of Chemistry and Solis.  In charge Bureau of Endemistry and Solis.  In charge Bureau of Agricultural Economics.  In charge Bureau of Agricultural Economics (regulatory activities).  Assistant Chief of Bureau of Agricultural Economics (regulatory activities).  Assistant Chief of Bureau of Agricultural Economics (regulatory activities).  Assistant Chief of Bureau of Agricultural Economics (regulatory activities).  Assistant Chief of Bureau of Agricultural Economics (regulatory activities).  Assistant Chief Bureau of Agricultural Economics (regulatory activities).  Assistant Chief Bureau of Agricultural Economics (regulatory activities).  Assistant Chief Bureau of Amimal Industry and chief, hog cholera division.  Supervises and coordinates the preparation and dissemination of all agricultural incharge Bureau of Animal Industry and chief bureau of Home Economics.  In charge Bureau of Almal Edustry.  Consider Chief Bureau of Almal Economics degeneral supervision region no. 8.  Condicted Office Experiment Stations.  General supervision region no. 8.  Director, Forest Survey.	
sation	Total	######################################	
Annual compensation	Allow- ances		_
Annus	Base pay	### ### ##############################	_
	Designation	Secretary of Agriculture Director of scientific work Director of scientific work Director of scientific work Director of scientific work Director of bureau Chief of bureau Taxion economist Special consulting mathematician Than on economist Special consulting mathematician This conclusion of personnel and business administration Assistant chief of bureau Chief of bureau Assistant chief of bureau Assistant chief of bureau Chief of bureau Chief of bureau Assistant chief of bureau Chief of bureau Chief of bureau Assistant chief of bureau Chief of bureau Chief of bureau Chief of bureau Head forester Regional forester	vice.
	Name	Wallace, Henry A. Woods, Albert F. Woods, Albert F. Washor, Ohyde W. MacDonald, Thom- as H. Campbell, Walter G. Thomas, Seth Thomas, Seth The Redigion, Paul G. Knight, Henry G. Redigion, Paul G. Marlatt, Charles I. Stuart, Robert Y. Taylor, Willam A. Marvin, Charles F. Parchidl, Fred R. Marvin, Charles F. Fairchidl, Fred R. Weckberger, Warren W. Kitchen, Glarnee W. Browne, Charles A. Breman, Edward A. Browne, Charles A. Strong, Joseph W. T. Stanley, Louise. Sherman, Raf F. Houde, Ulysses G. McCrory, Samuel H. Rohwer, Siebert A. Houde, Ulysses G. Thomas, Samel H. Rohwer, Siebert A. Festiel, Mordecai J. H. Forly, Charles H. Festiel, Mordecai J. Flory, Charles H.	🗄

List of officers and employees in the Department of Agriculture receiving compensation at the rate of \$5,000 or more per annum—Continued

			1		
		Annu	Annual compensation	ation	
Name	Designation	Base pay	Allow- ances	Total	Brief description of duties
Henderson, Walter	Associate chief	\$6,400		\$6,400	Associate Chief Bureau of Biological Survey.
McCall, Arthur G	Principal soil scientist	6,400		6, 400	Chief of Soil Investigation.
Poley, Edward A	Agricultural attachéAssistant chief of administration	6,400		6, 400	In charge London, England, office, Division of Foreign Agricultural Service. Assistant Chief of Food and Drug Administration
Worthley, Leon H.		6,400		6,400	resistant control and Japanese beetle control work.
Boykin, Lester E Hewes, Laurence I	Principal administrative officer Principal highway engineer	6,400		6,6,400	In charge Division of Contracts and Lores and Diseases. Chief Division of Contracts and Laws. Deputy chief engineer in charge of districts nos. 1, 2, 3, 11, and 12, and Hawaii-Federal
Johnson, Junius W	-do	6,400		6, 400	aid park and road work.  District engineer in charge Pederal-aid work and forest and park road work. district
					no. 3.
Toms, Kaymond E. Wilson, Philip St. J. Smith, Clarence B. Callander, William	dodo	6,6,6,6,6,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0		6,400 6,400 2,400 2,000	Chief Division of Design. Chief Engineer of Public Roads. Assistant director and chief cooperative extension work. In charge Division of Crop and Livestock estimates; chairman, Crop Reporting Board.
Gray, Lewis C.	Principal agricultural economist.	6, 200		6,200	In charge, Division of Land Economics.
Stine, Oscar C Hoyt, A very S Garner, Wightman		6,6,6,6 2000 2000 2000 2000 2000 2000 20		6,6,6,6	In charge, Division of Fault, Managelingthe and Ubbs. In charge, Division of Statistical and Historical Research. Assistant Chief Bureau of Plant Quarantel Research. In charge Division of Planten of Plant Marantelian
W.	and the state of t	10		201	th chaigy, 171 total of 1 concess and 1 tally 17 deliable.
Metcalf, Haven Scofield, Carl S Bishop, Hubert S	Frincipal pathologist Principal agriculturist Principal highway engineer	6,6,6, 200 200 200 200		6,200 6,200 6,200	In charge, Division of Forest Pathology. In charge of western irrigation agriculture. Ohlef, Division of Construction.
Bright, Joseph S James, Edwin W Lynch, William H	<u>i i i</u>	6,6,6, 2000 2000 2000		6,200 6,200 6,200	Construction engineer, forest and national parks, West. District Division of Highway Transport. District engineer in charge of Pederal-aid road work and forest and park road work,
Voshell, James T	do. Assistant chief of bureau	6, 200		6, 200	district no. 1. District engineer in charge of Federal-aid road work, district no. 7. Assistant Chief, U.S. Weather Bureau.
Kogers, Lore A. Dorset, Marion McLaughlin, Walter	Principal bacteriologist Principal biochemist Principal irrigation engineer	6,6,6,0 0000 0000		6,6,6,0 000 000 000	Chief, Division of Dairy Research Laboratories. Chief, Biochemic Division. Chief, Division of Irrigation.
Skinner, William W.		6,000		6,000	Assistant chief, Chemical and Technological Research.
Marbut, Curtis F Schreiner, Oswald	1	\$ 6,6 6,0 6,0 6,0 6,0 6,0 6,0 6,0 6,0 6,0		000 000 000 000	Chief, Foot Research Division. Chief, Soil Survey Division.
Veitch, Fletcher P Michael, Louis G	Princip Agricul	6,000		6,000	Chief, Industrial Farms Products Division. In charge Belgrade, Yugoslavia Office, Division of Foreign Agricultural Service.

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Research and investigations incident to development Foreign Agricultural Reporting Services.  In charge, Division of Cotton Marketing. In charge, Division of Parity and Poultry Products. In charge, Division of Farity and Poultry Products. In charge, Division of Fruits and Vegetables. In charge, Berlin, Germany, office of Division of Foreign Agricultural Service. In charge, Division of Livestock, Mest, and Wool. In charge, Division of Livestock, Mest, and Wool. In charge, Warehouse Division (administration of United States Warehouse Act). Diverslops cooperation with State officials, coordinates State and Federal activities. Directs work of western inspection district. Chief, branch of forest management. Chief, branch of public relations. Chief, branch of engineering.	Chief, branch of operation, Forest Service.  Chief, branch of pands, Forest Service.  Chief, branch of tange management, Forest Service.  General supervision, region no. 1, Forest Service.  General supervision, region no. 3, Forest Service.  General supervision, region no. 3, Forest Service.  General supervision, region no. 4, Forest Service.  General supervision, region no. 5, Forest Service.  General supervision, region no. 6, Forest Service.  General supervision, region no. 6, Forest Service.  General supervision, region no. 6, Forest Service.  General supervision of the Doratory.  Assistant to director forest products laboratory.  Chief section, timber mechanics.  Consultant engineering problems involving wood use.  In charge of Chiego office, grain futures administration.  Sterilization and disinfection of plants.  Chief, division of foreign plant quarantines.  In charge of regeneral on development of Doron resistance citrus stocks.  Chief, division of control, Burean of Public Roads.  In charge of resement in development of Doron resistance citrus stocks.  Chief, division of management in Burean of Public Roads.  Chief, division of information, Burean of Public Roads.  Chief, division of tests.  District engineer in charge Federal-aid work and forest and park road work, district no. 2.  Assistant director of personnel and business administration and department budget office, and proper plant directors of personnel and forecast division.  Principal meteorologist and forecaster, Washington forecast district.  Principal meteorologist and forecaster, San Francisco forecast district.
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Agricultural commissioner  Principal marketing specialist  Agricultural attaché Principal marketing specialist  do do Principal chemist  do Principal chemist  do do Principal chemist  do do Principal chemist  do Principal chemist  do Principal chemist  De	Principal administrative officer.  do do Regional forester do do do do do Director forest experiment station Principal forestry specialist Principal chemist Principal chemist Principal chemist Principal agrineer Principal agrineer Principal agrineer Principal apprisologist Principal physiologist Principal physiologist Principal physiologist Principal physiologist Principal physiologist Principal physiologist Principal structural engineer Principal structural engineer Principal administration officer Principal meteorologist
Palmer, Arthu W.— Potts, Roy C.— Sherman, Wells A.— Steare, Loyd V.— Yaylor, Fred V.— Yaylor, Fred V.— Yole, H. Stanford, Frisbie, Walter S.— Whatton, William R. M. R. M. William R. M. Carter, Edward E.— Marrell, Fred W.— Nogreoss, Theodore	W. Kneippy, Reor F. Go. Rachford, Chris E. Go. Rachford, Chris E. Go. Rachford, Chris E. Regional Peck, Allen S. Go. Rober, Frank C. W. Go. Ruthedge, Richard H. Go. Runghad, Arthur C. Principal Winslow, Carlie P. Principal Nearly, Lee F. Principal Roark, Raymond J. Principal Roark, Raymond J. Principal Rassoer, Emest R. Principal Rassoer, Emest R. Principal Rungess, Albert F. Principal Burgess, Albert F. Principal Runges, Albert F. Principal Runges, Albert F. Principal Runges, Cook Vortor F. Principal Cook Vortor F. Principal Cook Vortor F. Principal Swingle, Walter T. Principal Cook Vortor F. Principal Cook Vortor F. Go. Go. Principal Sweetser, Charles H. Principal Sweetser, Charles H. Principal Jump, W. Ashby. Principal Nutichall, Gandes E. Principal Mitchell, Gharles E. Go. Bowie, Edgar B. Principal Mitchell, Charles E. Go. Bowie, Edgar B. Principal Mitchell, Charles E. Go. Bowie, Edgar B. Principal Mitchell, Charles E. Go. Bowie, Edward H. Go. Bowie, Edward H. Go.

List of officers and employees in the Department of Agriculture receiving compensation at the rate of \$5,000 or more per annum—Continued

	Brief description of duties	Principal meteorologist and forecaster, New Orleans forecast district.  Assistant chief of Bureau and Chief, Packers and Stockyards Division.  Chief, Soil Mycrobiology Division.  Chief, Soil Mycrobiology Division.  Chief, Division of Dairy Cattle Breeding, Feeding, and Management.  In charge estimates on grain, hay, and miscellaneous crops and consulting research statistician.  In charge Division of Farm Population and Rural Life.  In charge Division of Farm Population and Rural Life.  Research and investigational work of foreign marketing of fruits and vegetables.  Chief, Division of Forest Insects.  Chief, Division of Forest Insects.  In charge Mexico City laboratory for investigation of fruit flies.  Directs work of central inspection district.  Chief, Division of Central Livision.  General supervision, region no. 7.  Chief of Microanalytical Division.  Chief of Microanalytical Division.  Chief of Microanalytical Division.  Chief of operation, lands and roads, region no. 8.  Consultant, pulp and paper investigations.  Assistant Chief of Bureau of Plant Industry.  Directs and conducts research and water power, region no. 8.  Consultant, pulp and paper investigations.  Assistant Chief of Bureau of Plant Industry.  In charge, Division of Blister Rust Control.  Research in create arop production.  Research of fruit improvement through but desection.  Leader of northern group of field stations, dry-land agriculture.  District engineer in charge of Federal-aid road work, district no. 5.  Supervises legal work connected with national forests.  Supervises legal work connected with national forests.  Supervises legal work connected with national forests.  Supervises legal work connected with national forests.
ntion	Total	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Annual compensation	Allow- ances	000755
Annua	Base pay	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	Designation	Principal meteorologist.  Assistant chief of bureau Principal mycologist.  Principal mycologist.  Principal specialist in dairy-cattle breeding.  Principal agriculture statistician.  Principal marketing specialist.  Principal marketing specialist.  Principal marketing specialist.  Principal marketing specialist.  O.  Principal marketing specialist.  do.  Orief of district.  Principal microscopist.  Regional forester.  Regional forester.  Assistant regional forester.  Assistant regional forester.  Regional forester.  Principal apthologist.  Principal pathologist.  Principal agriculturist.  Principal agriculturist.  Principal agriculturist.  Principal agriculturist.  Principal agriculturist.  Principal agriculturist.
Name		Cline, Isiac M.  Shorier, Julius M.  Miller, Arthur W.  Miller, Arthur W.  From, Charles W.  Becker, Joseph A.  Besley, Harold J.  Galpin, Charles J.  Marquis, John C.  Motz, Frederick A.  Wheeler, William C.  Clarighead, Frank C.  Larimer, Walter H.  Baken, Arthur C.  Clarke, James O.  Clarke, James O.  Kirscher, Joseph C.  Henitzlemann, B.  Frank  Merritt, Melvin L.  Tinker, Earl W.  Heritzlemann, B.  Frank  Merritt, Rett.  Coville, Fred.  Beattie, R. Kent.  Heritzlemann, Henry E.  Heritzlemann, B.  Harlan, Henry E.  Beattie, R. Kent.  Coville, Fred.  Coville, Fred.  Shamel, Archibeld D.  Stephens, John M.  Sheemaker, Clifford  Boyle, Charles W.  Cronin, Patrick D.  Cronin, Patrick D.  Lees, Fred.  Lees, Fred.  McConville, Arthur  H.  Evans, James A.

	FUN	CTIONS OF THE	DEPARTME	ENT OF AG	RICULTURE	4:
In charge cooperative extension work, Central States. Associate in experiment station administration and assistant chief. Associate in experiment station administration and specialist in agricultural economics and rural scotlogy. In charge meteorological physics and editor of Monthly Weather Review	Principal meteorologist in charge of New York office. Engineer in charge inter-american highway reconnaissance survey. Chief, Zoological Division, Bureau Animal Industry. Chief, Tick Eradication Division, Bureau Animal Industry.	Superintendent animal disease work at experimental farm.  Chief, Field Inspection Division, Bureau Animal Industry.  Chief, Pathological Division, Bureau Animal Industry.  Chief, Animal Husbardty Division.  Chief, Division of Virus Serum Control.  Chief, Meat Inspection Division.  Chief, Meat Inspection Division, Bureau Animal Industry.  Principal valuation engineer of public stockyards for rate-making purposes.  In charge Division of Fur Resources, Bureau Biological Survey.  In charge Division of Rodent and Predatory Animal Control, Bureau Biological In charge Division of Rodent and Predatory Animal Control, Bureau Biological In charge Division of Rodent and Predatory Animal Control, Bureau Biological	Survey.  In charge Division of Game and Bird Conservation.  Chief, Profein and Nutrition Division, Chemistry and Soils.  Chief, Insecticide Division, Chemistry and Soils.  Chief, Soil Chemistry and Physics Division, Chemistry and Soils.  Chief, Color and Farm Waste Division, Chemistry and Soils.  Acting chief fertilizer and fixed nitrogen investigations.	Chief, Carbohydrate Division, Chemistry and Soils. Chief, Chemical Brigneer Division, Chemistry and Soils. In charge Shanghai China Office, Division of Foreign Agriculture Service, Bureau of Agricultural Economics. Investigation and analysis of Government aid to agriculture in foreign countries. Acts as livestock statistical consultant for bureau; in charge livestock estimates. Chief, Division of Dairy Manufacturing Investigations and Introduction.	Research and investigational work of foreign marketing of tobacco.  In charge general fleid headquarters, grain division.  In charge Sydney A usuralia office, Division of Foreign Agricultural Service.  In charge Bydney A strain office, Division of Foreign Agricultural Service.  Associate division leader, fruits and vegetables division, in immediate charge enforcement Perishable Agricultural Commodities and Produce Agency Acts.  In charge Preducia, South Africa division of Poreign Agricultural Service.  Chief, Division of Stored Product Insects.  Chief, Division of Cotton Insects.  Chief, Division of Cotton Insects.  Chief, Division of Cotton Insects.	<sup>2</sup> Paid by inter-American highway appropriation.
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do Principal chemist Principal agricultural economist Principal agricultural economist Principal meteorologist	Principal meteorologist. Senior highway enginer Principal zoologist. Principal veterinarian	do do do Principal animal husbandman Principal veterinarian do do Principal valuation engineer Principal biologist do do do	United States game conservation officer. Principal chemist.  do.	Principal chemist Principal enginer Agricultural conmissioner Principal agricultural economist Principal ilvestock statistican Principal dairy manufacturing special-	H   A   H   A	1 Intermittent service
Farrell, George E Beall, Walter H Youngblood, Bonney.	Scarr, James H Brown, D. Tucker Hall, Maurice C MacKellar, William	Cotton, William E. Pope, George W. Schoening, Harry W. Shefaro, Earl W. Skidmore, Don I. Skidmore, Don I. Skiddom, Riche P. Wight, Alexander E. Henrici, Hermann C. Ashbrook, Frank G. Ashbrook, Frank G. McAtee, Waldo L. Young, Stanke L.	Sheldon, Harold P Jones, David B Roark, Ruric C Byers, Horace G Herolck, Horace T Kunsman, Charles	Paine, Howard S Price, David J Dawson, Owen L Edminister, Lynn R. Harlan, Charles L Bell, Raymond W	Myles, Rutherford. Paxton, Edward C. Ray, Glenn S. Robb, Francis G. Taylor, Clifford. Back, Ernest A. Bishopp, Fred C. Harned, Robey W. Van Dine, Deles L.	

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1 Intermittent service

List of officers and employees in the Department of Agriculture receiving compensation at the rate of \$5,000 or more per annum—Continued

Triss et l'E B B B B B B B B B B B B B B B B B B B	Principal entomologist  do Chief of drug courrol Principal chemist  do Chief of drug courrol Principal chemist  Regional forester Principal forest economist  Assistant chief Assistant chief Principal economist  do Assistant chief Principal administration officer  Principal plant quarantine administration  Principal pathologist Principal potanist Principal potanist Principal potanist Principal potanist	Ammu Base Pay A representation of the control of th	Annual compensation  Approximately a pay a	Total Right Representation of the Right Representation of	Brief description of duties  Chief, Division of Truck and Garden Crop Investigations. In charge Japanese Beetle Investigation. In there also panese Beetle Investigation. Administrative supervision, interstate sections, Food and Drug Acts. Technical supervision enforcement of Food and Drug Act to drugs. Technical supervision enforcement for Food and Drug Act to foods. Technical supervision enforcement for Food and Drug Act to foods. Technical supervision enforcement Insecticide Act.  In charge California Forest Experiment Station. In charge California Forest Experiment Station. In charge California Forest Experiment Station. Forest taxation studies. In charge Pacific Northwest Forest Experiment Station. Forest taxation studies. In charge to secretary and stopping forest devastation. Chief section, and paper in Forest Service. Chief section, and paper in Forest Service. Chief section, industrial investigation in Forest Service. Chief section, of timber physics. Assistant to chief of Grain Futures Administration. Chief section, of timber physics. Chief section, of timber physics. Assistant to chief of Grain Futures Administration. Chief section, of timber physics. Chief section, of timber physics. Chief section, of timber physics. Assistant to chief of Grain Futures Administration. Chief, Division of Boonomics in Bureau of Home Economics. Chief, Division of Boonomics in Bureau of Home Economics. Research and fruit disease investigation in plant industry. In charge Division of Genetics and Biophysics in Plant Industries. Research and Fruit diseases investigation in Post Bearch in Surar-heaf diseases and hreading and Bureau of Home Economics.
Corbett, Lee C Doyle, Conrad B Fisher, Durward F Fulton, Harry Galloway, Beverly T Aarfley Carl P.	Principal horticulturist. Principal agronomist. Principal pathologist. 10- 40-	9,000 9,000 9,000 9,000 9,000		, 600 600 600 600 600	Research on stabilization of horticultural production. Assistant head of Division of Cotton, Rubber, and Other Tropical Plants. In charge project fruit and vegetable transportation and storage. Research in fruit-disease in vegitations. Scientific consulting speedialist in foreign-plant introduction work.

Expert in classification of grasses, charge of Government grass herbarium. Conducts research on cereal-disease control.  Supervises pathologic section of cereal research.  In charge of Division of Egyptian-Cotton Breeding.  Research and investigational work in foreign marketing of grains.  In charge of Division of Dry-Land Agriculture.  In charge of Division of Cereal Crops and Diseases.  In charge of Division of Barberry Endication.  In charge of Division of Barberry Endication.  In charge of Division of Progree Crops and Diseases.  Research in cereal-crop production and improvement.  Research in cereal-crop production and improvement.  Recarch in cereal-crop production and improvement.	In charge alronomic research on sugar beats.  In charge Division Mycology and Plant-Disease Survey.  Supervision of all cotton-field stations in Southwest.  Supermendent of Cheyenne Horicultural Field Station.  District engineer in charge Federal-aid road work, district no. 9.  Chief, Bridge Division.  District engineer in charge of Federal-aid road work, district no. 9.  District engineer in charge of Federal-aid road work, district no. 8.  In charge of road work in national parks and national forests, Eastern and Southern States.  District engineer in charge of Federal-aid road work, district no. 6.  District engineer in charge of Federal-aid road work, district no. 6.  In charge of park and Federal-aid work in Hawaii.	District engineer in charge Federal-aid road work, forest and park road work, district no. 11. Assistant to the Secretary of Agriculture. In charge subject matter specialists, cooperative extension work. In charge, cooperative extension work, Western States and Territories. Chief of Radio Service. Chief of Radio Service. Chief of Publications. Director, Puerto Rico Experiment Station. Principal meteorologist in charge of Aerological Division. Principal meteorologist in charge of River and Flood Division. Principal meteorologist in charge of River and Flood Division. Principal meteorologist in charge of River and Flood Division.	Stockyards and commission rates, registrations and bonds.  Research in animal nutrition and biochemical study animal products.  Trade practice investigations, transactions packers, livestock commission men and dealers.  Trade practice investigations, transactions packers, livestock commission men and dealers.  Executive officer of the Alaska Game Commission and chief representative of Biological Survey in Alaska.  Research and investigations relative to special economic research for administration office; responsible for preparation of "Agricultural Situation" issued monthly. Chairman, New Orleans, La., board of cotton examiners.  Acting chairman, Chairman, Chairman, Chairman, Chairman, Chairman, Chairman, Research Sc., and of cotton examiners.  In charge, spot-cotton market supervision.
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Principal botanist. Principal pathologist.  Principal physiologist. Principal marketing specialist. Principal agronomist. Principal agronomist. Principal agronomist.  Principal agronomist.  Principal agronomist.  Principal agronomist.	1	Principal administration officer. Principal agriculturist.  do. Chief of Radio Service. Chief of Publications. S. Principal horticulturist. Principal meteorologist.	
Hitchcock, Albert S. Principal Humphrey, Harry B. Principal Johnson, Aaron G.	Skuderna, Anton W. Shear, Cornellus L. Hite, Jonas B. Hildreth, Aubrey C. Bruce, Arthur G. Grover, Oscar L. Palen, Archibald E. Snead, Charles D. Spelman, Harold J Swain, Clayton E Wheeler, Ernest S	Appleby, Paul H Graham, A. B Joyd, William A Salisbury, Mores Merrill, Melvin C McClelland, Thomas B. Gregg, Willis R Gregg, Willis R	Dagger, Golden N Ser Howe, Paul E

List of officers and employees in the Department of Agriculture receiving compensation at the rate of \$5,000 or more per annum—Continued

		Annu	Annual compensation	ation	
Name	Designation	Base pay	Allow- ances	Total	Brief description of duties
Meloy, Guy S	Senior marketing specialist	\$5,400		\$5,400	In charge cotton linters standardization; investigations of cottonseed and cotton
Slade, Harold C	op	5, 400		5, 400	products. In charge, cotton standards; chairman, final review committee and chairman, appeal
Valgren, Victor N Loving, Hamilton I.	Senior agricultural economist.	5,400		5,400	board of review examiners. Assembling and making available information on problems of agricultural insurance. Chilef. Branch of Finance and Accounts
Marsh, Raymond E. Harter, Leonard L.— Robinson Thomas	Senior forester Senior pathologist	5, 400 2, 400 400 400		5,400	Assistant chief, Research. In other present on bean diseases.
R.	The state of the s	o, 400		9,400	Asserted on eletus and tropical fruits.
Stephens, David E. Hathaway, Erwin O.	Senior agronomist.	5,400 5,400		3 5, 400 5, 400	Superintendent of Moro, Oreg., field station (dry-land cereal experiments). First assistant to district engineer, district no. 4.
Brooke, John C Diffenbach, Rudolph		5, 400 5, 200		5,400	Legal work under Packers and Stoekyards Act. In charge. Division of Land Aequisition
Palmer, Lawrence J. Bennett. Hugh H		4,960	\$240	5, 200	In charge of Reindeer and Muskox Experiment Station, College, Alaska.
Fohrman, Milton H.	Senior dairy husbandman			5,200	Supervisor dairy cattle breeding investigations.
Kelly, Ernest	Senior market-milk specialist	2,200 2,200		5,200	Supervisor chemical investigations deterioration milk products. Chief. Division of Market-Milk Investigations
Meigs, Edward B.	Senior physiologist			5, 200	Supervising investigations nutrition dairy cows.
Cooper, Martin R.	Senior agricultural economist			5, 200	Supervising investigations physiology of milk secretion of dairy cattle. In charge, commodity studies section, Division of Farm Management and Costs:
Davis, Leon M.	Senior marketing specialist.	5, 200		5, 200	assistant division leader. In charge, market news service on dairy and nonliny products
Dent, William E Hughes, Fred J	Senior specialist in cotton classification.	5, 200		5, 200	Member, Memphis, Tenn., board of supervising cotton examiners.
		0, 10		0, 200	and computing, audits and accounts, graphic, property and supplies, telegraphic,
Parker, Edward C	Senior marketing specialist	5, 200		5, 200	recunological investigations, stenographic-vise, mails and files). Special investigational and research work on grain and hay standards and inspections
Poulton, Albert C.	Senior sp	5, 200		5, 200	Member, Memphis, Tenn., board of supervising cotton examiners.
Munns, Edward N.	Senior administrative onicer	5,200		5, 200	Inspection, operation activities. Chief Division of Silvies
Smith, Herbert A.	Senior for	5, 200		5,200	Dissemination of forestry information.
rearson, Gustar A	experiment station.	o, 200		2, 200	In charge of station.
Bates, Carlos G	20.0	5, 200		5, 200	Silvicultural investigations.
2 2		5, 200 5, 200		5, 200 5, 200	Investigations on chemistry of wood. Assistant Chief, Section Industrial Investigation.
Markwardt, Lor-	Senior engineer	5, 200		5, 200	Assistant Chief, Section Timber Mechanics.
Tiemann, Harry D.	Senior physicist	5,200		5,200	Dry kiln expert,
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Mathematical analysis research data on mechanical properties of wood.  In charge, forest survey R-6.  Chief, Division of Textiles and Clothing.  Assistant to head of Division of Horiculture, in connection with informational activities.  Assistant Chief, Division of Blister Rust Control, in charge of eastern control work.  Assistant Chief of Division Blister Rust Control, in charge of western control work.  Research in fruit diseases and orchard diseases.  First assistant to district engineer, district no. 1. In charge national park and forest roads.	Assistant to chief, Juyision of Design.  First assistant to district engineer, district no. 2. In charge Federal aid and Federal lands (State projects) work.  Assistant to Chief, Division of Contracts and Laws.  Engaged in problems of highway design and roadside planting in connection with Federal aid work.  Supervises legal work connected with quarantines, Federal aid roads, etc.	Supervises legal work connected with wild-life conservation, claims, etc. In charge poultry section Animal Husbandry Division. Chief, Division of Mechanical Equipment. Chief, Division of Drainage and Soil Evosion Control. Senior biologist, Division of Biological Investigations. In charge, concentrated fertilizer investigation. In charge of pharmacological investigation stocks. In charge, fruit and vegetable chemistry laboratory. In charge, fruit and vegetable chemistry laboratory. In charge, soil fertility investigation Northeastern States. Evaluate processes and statistics and advises on fertilizer developments. Supervision physic-chemist layestigations utilization dairy by products.	In charge Cotton Market News and quotation service.  Research and investigations of needs for agricultural lands and area available for various uses.  Price analyses; agricultural and business interrelations; general price income trends—  prices and production; proces of potatoes; general outlook work.  In charge, Lausing (Mich.) office, Division of Crop and Livestock Estimates. In charge, Atlanta (Ga.) office, administration of U.S. Warehouse Act.  In charge, seed verification and reporting service.  Supervision of administration U.S. Cotton Futures and U.S. Cotton Standards Acts In charge, New York (N.Y.) office, Division of Livestock, Measts, and Wool.	Assistant to leader in charge, Grain Division (enforcement U.S. Grain Standards Act). Statistical analysis relating to cotton, wool, and other textiles; prices and production—general outlook work. In charge, Marsellie (France) office, Division of Foreign Agricultural Service. In charge, Austin (Tax.) office, Division of Crop and Livestock Estimates. In charge milk and dairy estimates and intentions-to-plant estimates. Assistant to Chief, supervises financial, personnel, and supply activities. Assistant Chief, forest management.
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Wilson, Thos. R. C. Senior engineer.  Andrews, Horace J. Senior forest economist.  Gibert, Muth.  Martin, James F. Good pathologist.  Rosey, Gilbert E. Good Bloot Bellott, John W. Senior bithway engineer.  MANARY LOON W. Senior highway engineer.	McNay, Joseph V. Senior ngnway bridge engmeer.  Morris, Charles C. Senior highway engineer.  O'Leary, William J. Senior administrative officer.  Shearman, Thomas Senior attorney.	, K	1	Murphy, Edward J. Senior administrative officer.  Myers, Lawrence Senior agricultural economist.  Nielsen, Niels I. Agricultural commissioner.  Shebrard, John B. Senior agricultural statistician  Walton, William R. Senior actionologist  Jenion, Fred B. Senior administrative officer  Fitzwater, Jos. A. Senior forest inspector

Receives a total salary of \$5,400 of which the State of Oregon pays \$1,280 per annum.

List of officers and employees in the Department of Agriculture receiving compensation at the rate of \$5,000 or more per annum—Continued

	Brief description of duties	Research, forest economics. Chief, Division State Cooperation. Assistant Chief, branch of engineering. Chief, forest management, R-1. Chief, range management, R-1. Chief, range management, R-2. Chief, inage management, R-2. Chief, inage and public relations, R-2. Chief, operation, R-2. Chief, forest management, R-2.	Chief, operation, R-3.  Chief, lands, R-3.  Chief, engineering, R-4.  Chief, crest management, R-4.  Chief, range management, R-4.  Chief, range management, R-4.  Chief, operation, R-4.  Chief, operation, R-5.  Chief, operation, R-5.  Chief, public relations, R-5.	Chief, engineering, R-5. Chief, range management, R-5. In charge, fixed matters, R-5. Chief, forest management R-5. Chief, forest management, R-6. Chief, range management, R-6. Chief, range management, R-6.	Chief, operation R-6. In charge, southern forest experiment station. Chief, forest management, R-7. In charge, Allegheny forest experiment station. Study on rehabilitation idle hands in northeastern States. Studies, wood finishing and moisture proofing. Chief, laboratory operation. Research engineer, timber mechanics. Assistant chief, secretary, publication of results. Economic investigational and research in grain futures.
ation	Total	8. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	44444444444444444444444444444444444444	6000 0000 0000 0000 0000 0000 0000 000	60000000000000000000000000000000000000
Annual compensation	Allow- ances				
Annu	Base pay	\$\$ \$000 \$000 \$000 \$000 \$000 \$000 \$000	60000000000000000000000000000000000000	6000 0000 6000 0000 6000 0000 6000 0000	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	Designation	Senior forester do Ado Assistant regional forester do	ф. ф. ф. ф. ф. ф. ф. ф. ф. ф.	Regional engineer Assistant regional forester Regional fiscal agent Assistant regional forester do do do	do Senjor silviculturist. Assistant regional forester Director forest experiment station. Senjor forest economist. Senjor district forest inspector Senjor demist. Senjor engineer. doingen of the conomist. doingen of the conomist.
	Name	Gibbons, William H. Hastings, Alfred B. Lautz, George H. Koch, Elers. Smith Glen A. Stockfale, Lewis C. Hatton, John H. Stent, John W. Stahl, Carl J.	Cakins, Hugh G. Cheney, Morton M. Martin, Joseph P. Morse, Chester B. Parkinson, Dana. Winkler, Ernest W. Woods, Clarence N. Woods, Clarence N. Deering, Robert L. Hutchinson, Wallace	Kramer, Edwin Nelson, Jesse W. Smith, Albert W Woodbury, True- man D. Y. Arnes, Fred R Guthrie, John D Kayanagh, Edward	Waha, Alpheus O. Demmon, Elwood R. Evaus, Robie M. Forbes, Reginald D. Stewart, Guy R. Tillotson, Glaude R. Browne, Fred L. Trayer, George W. Trayer, George W. Truax, Thomas R.—

		FUNCTIONS OF THE DEPARTMENT	OF.
5,000   Consulting specialist in plant diseases.	Directs and conducts vegetable production and breeding investigation. In charge of fiber plant investigations. Assistant to head of Division of Horticulture, in connection with administration of	Superintendent of Arlington Experimental Farm.  Research in tree surgery and diseases. Leader of Southern group of field stations, Division Dry Land Agriculture. In charge peach production investigation. Research on corn crop improvement. Research on diseases of ornamental trees and shrubs. Research on diseases of cornamental trees and shrubs. Research on diseases of forest trees. Northeastern States. In charge Forest and Park road work. District No. 2. First assistant to Chiel, Division of Management. In charge investigations of subgrade materials encountered in highway construction, Division of Tests. In charge work of nonbituminous section, Division of Tests. In charge work of nonbituminous section, Division of Tests. Dr. Hewes. Dr. Hewes. Assistant to district engineer, District No. 4. Engaged on meteorological and hydrographic work, Division of Tests. Bingrade on meteorological and hydrographic work, Division of Tests. Chief office of exhibits. Superisher of exhibits. Superisher speed in therpretative articles on agriculture. Chief of press service. Prepares speeds in therpretative articles on agriculture. Beditor, Cooperation with Biological Abstracts. Director, Hawais experiment station. Scholor preferonlength in Chirare of Division Offron Weather.	TOTAL AND THE CONTROL TO SERVICE TO A SERVIC
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McCubbin, Walter	Boswell, Victor R Dewey, Lyster H Gould, Harris P	Butterfield, Barl C. Collins, J. Franklin. Chiloott, Ellery F. Holbert, James R. Holbert, James R. Hong, William H. Spaulding, Perley Carpenter, John C. Ilark, George G. Hogentogler, Chester A. Ageson, Frank H. Mayo, Geoffrey W. Ostrander, Alfred I. Sourwine, James A. Williamson, Arthur Heller, Lessile W. Ostrander, Alfred I. Sourwine, James A. Peller, Lessile W. Cheller, Lessile W. Lowe, C. D. Lowe, C. D. Lowe, C. D. Lowe, C. D. Lowe, J. Arthur Helscox, J. Ohn R. Rand, Frederick V.	



